A Technical Memorandum NWS WR-152



CLIMATE OF SALT LAKE CITY, UTAH

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N.O.A.A

U.S. Dept of Commerce

Wilbur E. Figgins (Retired) Alexander R. Smith

Weather Service Forecast Office Salt Lake City, Utah March 1989 Fourth Revision



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- 36
- 37
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- 40 The Man-Machine Mix in Applied Weather Forecasting in the 1970s. L.W. Snellman,
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- 44
- 46
- 47
- 49
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- 54
- 55

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- 60
- 63

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- 75

- 78

- 81
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- 87

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- 97

- 103
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- 107

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- 014/AS) 131
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CLIMATE OF SALT LAKE CITY, UTAH

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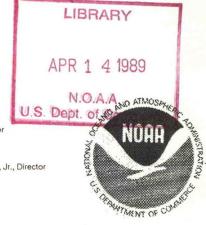
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This publication has been reviewed and is approved for publication by Scientific Services Division, Western Region.

> You Miche Ken Mielke, Acting Chief Scientific Services Division Salt Lake City, Utah

CONTENTS

| | Table of Contents |
|-------|--|
| Ι. | Introduction |
| | |
| II. | Geographical and Climatological Summary |
| III. | History of Weather Observations at Salt Lake City 2 |
| IV. | Selected Highlights of the Salt Lake City Airport Weather Records |
| V. | Local Topography Effects Upon the Salt Lake Weather12 |
| VI. | Air Pollution and Trapped Air |
| VII. | Solar Energy and Sky Cover |
| VIII. | Acknowledgements |
| IX. | References |
| Х. | Local Topography and Map of the Salt Lake City Airport and Vicinity (Figure 3) |
| XI. | Table 1. Sunrise and Sunset Table |
| XII. | Table 2. Normals, Means, and Extremes 1951-1980 20 |
| XIII. | Table 3, a-d. Daily Normals of Temperature, Heating and Cooling Degree Days, and Precipitation . 21-24 |
| XIV. | TEMPERATURE DATA: |
| | Figure 4, a-d. Smoothed Average Hourly Temperature Curves by Month |
| | Table 4, a-1. Daily Maximum and Minimum Temperature Extremes For Each Month |
| | Table 5a. Daily Maximum Temperature Extremes Summary by Month with Day and Year of Occurrence 39 |
| | Table 5b. Daily Minimum Temperature Extremes Summary by Month with Day and Year of Occurrence 39 |
| | Table 6a. Monthly Average Maximum Temperature Extremes Summary with Year of Occurrence |
| | Table 6b. Monthly Average Minimum Temperature Extremes Summary with Year of Occurrence |

TABLE OF CONTENTS (continued)

| Table | 7. Monthly and Annual Average Maximum and Minimum Temperature Extremes With Year of Occurrence . | .41 |
|-------|---|------|
| Table | 8. Record Number of Days per Year with Maximum Temperatures 90, 95, and 100 Degrees or Higher. | .42 |
| Table | 9. Average Number of Days per Month with Maximums of 90, 95, and 100 Degrees or Higher | .42 |
| Table | 10. Greatest Number of Consecutive Days of 90 Degrees or Higher From June Through September . | .43 |
| Table | 11. Greatest Number of Days With 90 Degrees or Higher per Month | .43 |
| Table | 12. Earliest Date in Spring and Latest Date in Fall of 90 Degrees or Higher | .43 |
| Table | 13. Greatest Number of Consecutive Days of 95 Degrees or Higher From June Through September . | .44 |
| Table | 14. Greatest Number of Days With 95 Degrees or Higher per Month | .44 |
| Table | 15. Earliest Date in Spring and Latest Date in Fall of 95 Degrees or Higher | .44 |
| Table | 16. Greatest Number of Consecutive Days of 100 Degrees or Higher From June Through August | . 45 |
| Table | 17. Greatest Number of Days With 100 Degrees or Higher per Month | .45 |
| Table | 18. Earlest Date in Spring and Latest Date in Fall of 100 Degrees or Higher | . 45 |
| | 19. Greatest Number of Days in One Month With Maximum Temperature 32 Degrees or Below | .46 |
| Table | 20. Greatest Number of Consecutive Days With Maximum Temperature 32 Degrees or Below | .46 |
| Table | 21. Average Number of Days With Maximums 32 Degrees or Below | .46 |
| Table | 22. Greatest Number of Consecutive Days With Minimums 32 Degrees or Below | .47 |
| Table | 23. Average Number of Days with Minimums | . 47 |

| TABLE OF CONTENTS (continued) |
|--|
| Table 24. Greatest Number of Days in One Month With Minimums of O Degrees or Below |
| Table 25. Greatest Number of Consecutive Days With Minimums of O Degrees or Lower |
| Table 26. Average Number of Days With Minimums O Degrees or Lower |
| Table 27. Freeze Data at the Salt Lake City Airport49 |
| Table 28. Growing Season Data at the Salt Lake City Airport |
| XV. PRECIPITATION DATA |
| Figure 5. Salt Lake City Airport Seasonal Precipitation Record |
| Table 29. Wettest and Driest Calendar Year Summary52 |
| Table 30. The Average Time Interval For The Reoccurrence of Listed Precipitation Amounts52 |
| Table 31. Daily and Monthly Precipitation Normals 53 |
| Table 32. Maximum and Minimum Monthly Precipitation Extremes |
| Table 33. Wettest and Driest Water Year Summary 54 |
| Figure 6. Rainfall Charts: Probability of Measurable Rain (Percent) On Any Given Day |
| Table 34a. Greatest 24 Hour Precipitation (Midnight to Midnight) by Month (January - April) |
| Table 34b. Greatest 24 Hour Precipitation (Midnight to Midnight) by Month (May - August) |
| Table 34c. Greatest 24 Hour Precipitation (Midnight to Midnight) by Month (September - December)58 |
| Table 35. Maximum Precipitation by Selected Time Interval (Not Confined to Calendar Day) |
| Table 36. Average and Most Number of Days Each Month With Selected Amounts of Precipitation |

TABLE OF CONTENTS (continued)

| Table 37. Greatest Number of Consecutive Days With a Trace or More of Precipitation 6 |
|---|
| Table 38. Greatest Number of Consecutive Days With .01 Inch or More Precipitation 6 |
| Table 39. Greatest Number of Consecutive Days With .10 Inch or More Precipitation |
| Table 40. Greatest Number of Consecutive Days With .25 Inch or More Precipitation |
| Table 41. Greatest Number of Consecutive Days Without Any Precipitation |
| Table 42. Greatest Number of Consecutive Days Without Measurable Precipitation |
| Figure 7. Salt Lake City Airport Seasonal Snowfall Totals Summary |
| Table 43. Maximum and Minimum Snowfall Extremes By Month |
| Table 44. Maximum and Minimum Snowfall Extremes By Season |
| Table 45a. Greatest 24 hour Snowfall (Midnight to Midnight) By Month (January-April) 6 |
| Table 45b. Greatest 24 hour Snowfall (Midnight to Midnight) By Month (May-August) |
| Table 45c. Greatest 24 hour Snowfall (Midnight to Midnight) By Month (September-December) 6 |
| Table 46. Greatest Snowfall in Any 24 Hours And Greatest Snow Depth by Date |
| Table 47. Earliest, Average, and Latest Date (Including Amounts) For The First And Last Measurable Snowfall |
| Table 48. Greatest Number of Consecutive Days With Snow Depth of at Least 1.0 Inch |
| Table 49. Maximum Snowfall From Any Single Snowstorm |

| | TABLE OF CONTENTS (continued) |
|--------|--|
| | Table 50. Maximum, Minimum, And Average Number of Days With Measurable Snowfall By Month |
| | Table 51. Maximum, Minimum, And Average Number of Days With Measurable Snowfall By Season |
| | Table 52. Maximum, And Average Number of Days With Snowfall of at Least 1.0 Inch And 3.0 Inches By Month And Season |
| XVI. | THUNDERSTORMS AND HAIL |
| | Table 53. Average and Greatest Number of Days With Thunderstorms and Hail |
| XVII. | RELATIVE HUMIDITY |
| | Table 54. Average Relative Humidity by Time Periods73 |
| XVIII. | SUNSHINE, CLOUDINESS, AND FOG |
| | Table 55. Average Percent of Possible Sunshine; Average Amount of Sky Cover (Tenths); Average Number of Days of Clear, Partly Cloudy, or Cloudy; and Average and Greatest Number of Heavy Fog Days74 |
| | Table 56a. Average, Maximum, and Minimum Number of Days (January - June) of Clear, Partly Cloudy, and Cloudy |
| | Table 56b. Average, Maximum, and Minimum Number of Days (July - December) of Clear, Partly Cloudy, and Cloudy |
| XIX. | WIND |
| | Table 57. Average Speed, Prevailing Direction, Fastest Mile, and Peak Gust by Months with Day and Year of Occurrence |
| | Figures 8-19. Surface Wind Roses by Month and 3 Hour Periods |
| XX. | PRESSURE |
| | Table 58. Highest and Lowest Pressure (Reduced to Sea Level) and Average, Highest, and Lowest Station Pressure by Months and Day and Year of |

| | TABLE OF CONTENTS (continued) |
|--------|---|
| | Table 58a. Average Monthly Station Pressure Reduced to Sea Level |
| XXI. | DEGREE DAYS |
| | Table 59. Normal, Highest, and Lowest Heating Degree Days by Months and Year of Occurrence |
| | Table 60. Normal, Highest, and Lowest Cooling Degree Days by Months and Year of Occurrence |
| XXII. | SUMMER AND WINTER SEASONAL DATA |
| | Table 61. The Warmest And Coldest Summer Seasons June - August) With Their Average Mean Temperature Plus The Amount of Precipitation Received During the Period |
| | Table 62. The Warmest and Coldest Winter Seasons (December - February) With Their Average Mean Temperature Plus The Amount of Snowfall Received During the Period |
| XXIII. | HOLIDAY WEATHER INFORMATION |
| | Table 63. Average High and Low, Temperature Extremes, Probability of Measurable Rain or Snow And Maximum 24 Hour Snowfall |

CLIMATE OF SALT LAKE CITY, UTAH

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Weather Service Forecast Office
Salt Lake City, Utah

I. INTRODUCTION

The purpose of this publication is an attempt to bring together under one cover as much data as possible concerning the climate of Salt Lake City. This was a difficult undertaking because of the wide variance of climate in the Salt Lake area. The Wasatch Mountain range, immediately east of the city, and the location of the Great Salt Lake, a short distance to the west, cause a great difference in local microclimates.

The Salt Lake City weather records began over 100 years ago; however, the statistics in this report are based on the airport weather records which began May 1, 1928. The airport location continues to the present to be the National Weather Service' official weather observing location for the Salt Lake City area. This provides us with over 58 years of continuous weather information that was observed from an existing or comparable exposure location. However, it must be remembered that various extremes stated in this paper have, no doubt, been exceeded at other sites in the locality. Any summary such as this must be taken in the context of giving a general view of Salt Lake Valley conditions with the details only being applicable to the airport environs.

II. GEOGRAPHICAL AND CLIMATOLOGICAL SUMMARY

Salt Lake City is located in a northern Utah valley surrounded by mountains on three sides and the Great Salt Lake to the northwest. The city varies in altitude from near 4200 feet to 5000 feet above sea level (ASL).

The Wasatch Mountains to the east have peaks to nearly 12,000 feet ASL. Their orographic effects cause more precipitation in the eastern part of the city than over the western part.

The Oquirrh Mountains to the southwest of the city have several peaks to above 10,000 feet ASL. The Traverse Mountain Range at the south end of the Salt Lake Valley rises to above 6,000 feet ASL. These mountain ranges help to shelter the valley from storms from the southwest in winter, but are instrumental in developing thunderstorms which can drift over the valley in the summer.

Besides the mountain ranges, the most influential natural condition affecting the climate of Salt Lake City is the Great Salt Lake. This large inland body of water, which never freezes over due to its high salt content, can moderate the temperatures of cold winter winds blowing from the northwest and helps drive a lake/valley wind system. The warmer lake water during the winter and spring also contributes to increased precipitation in the valley downwind from the lake. The combination of the Great Salt Lake and the Wasatch Mountains often enhances storm precipitation in the valley.

Salt Lake City normally has a semi-arid continental climate with four well-defined seasons. Summers are characterized by hot, dry weather, but the high temperatures are usually not oppressive since the relative humidity is generally low and the nights usually cool. July is the hottest month with average maximum readings in the nineties.

The average temperature range is about 30 degrees in the summer and 18 degrees during the winter. Summer temperatures above 102 degrees or winter temperatures colder than -10 degrees occur only 1 season out of 4.

Winters are cold, but usually not severe. Mountains to the north and east act as a barrier to frequent invasions of cold continental air. The average annual snow fall is under 60 inches at the airport, but much greater amounts fall on higher bench locations. Heavy fog often develops under temperature inversions in the winter and can persist for several days.

Precipitation, generally light during the summer and early fall, reaches a maximum in the spring when storms from the Pacific Ocean are moving through the area more frequently than in any other season of the year.

Winds are usually light, although occasional high winds have occurred in every month of the year, particularly in March.

The growing season, or freeze-free period, averages over 5 months in length. Yard and garden foliage generally are making good growth by mid April. The last freezing temperature in the spring normally occurs in late April with the first fall freeze normally occurring in mid October.

III. HISTORY OF WEATHER OBSERVATIONS AT SALT LAKE CITY

The first weather observations in the Salt Lake area were taken by Mr. William W. Phelps, who entered the Salt Lake Valley with the Brigham Young company in 1847. Figure 1 is an example of Mr. Phelps' meteorological journal entries made at Winter Quarters near Council Bluffs, Iowa, for December 1847.

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Figure 1. Example of William W. Phelps' Meteorological Journal Entries made at Winter Quarters near Council Bluffs, Iowa, for December 1847.

After settling in the Salt Lake Valley, Mr. Phelps continued his weather observations and, accompanied with other valuable information, included them in the published form of the "Descret Almanac". The first edition of the almanac was published in 1851 and contained 16 pages plus a calendar for the year giving the time of sun risings, settings, and moon changes. The almanac for the year 1860 contained 32 pages and included the following statement: "A person without an almanac is somewhat like a ship at sea without a compass; He never knows what to do nor when to do it."

As early as 1851, Mr. Phelps was furnishing the city's newspaper staff with weather and astronomical observations. The following example of Mr. Phelps' comments is from the March 8, 1851 issue: "Again Doctor, I solicit a space in your columns, to say a few words upon 'the weather', which is so wonderfully foretold by the almanac maker, or the printer's devil in many almanacs, for the vexing consolation of farmers, travelers, and some visiting women. It cannot, at this time, be exactly told who first invented this kind of prophecy, but the English sovereignty, and the Yankee nation, have held it in as much repute as the subjects of a potentate to his word:—THE KING CAN DO NO WRONG".

It was also a belief in Mr. Phelps' day, as it is by some meteorologists today, that the changes of the moon have a strong influence on the weather. This is what Mr. Phelps had to say concerning this theory: "As to the influence supposed from changes of the moon over the weather, a few words to common sense minds will suffice. I have witnessed more than six hundred changes of the moon in fifty years, during which time not less than ten thousand changes of weather have happened by night and by day, among which were snow in winter, and thundershowers in winter; and yet, before and after all, when true philosophy which is truth, was consulted, I never found a man of this world, that knew what a day would bring forth, a year, a month, or a week ahead, unless revealed by the spirit of prophecy.

"On January 12, 1857, W.W. Phelps presented to the legislature resolution creating the office of Superintendent Meteorological Observations. The resolution was accepted, and Mr. Phelps was appointed to fill the position. As Superintendent, Mr. Phelps furnished monthly weather memoranda and meteoric phenomena to the city's newspaper, the Deseret News. The following entry in "Mr. Editor: Some people have short the paper typifies his work: memories, and I wish to check errors. Speaking of our cold winter thus far -- permit me to say that on January 9, 1848, the thermometer stood at 11 degrees below zero at sunrise, and this year, January 9, 1849, 4 degrees above zero at sunrise and has not been down to zero yet this month. The coldest day of the winter of 1848 was March 3, when the thermometer fell to 15 degrees below zero, with a cold west wind".

W.W. Phelps died March 6, 1872, but his records were continued by his son. Subsequently, a professor, M.E. Jones, got these data from the <u>Deseret News</u> and corrected and summarized them into monthly tabulations using daily records. (See Figure 2)

The first official weather service for Salt Lake City, sponsered by the U.S. Government, began on March 19, 1874, under the U.S. Army Signal Service. The weather station was located in a corner room on the third floor of the "Exchange Building" or "Godbe Building" on the southeast corner of East Temple and First South Streets.

On July 1, 1891, the Weather Bureau was established and made a part of the Department of Agriculture. At this time many Army Signal Corps personnel doffed their Army uniforms and became members of the Weather Bureau. The first civilian official in charge of the Weather Bureau Office was formerly an Army official.

Through the years the downtown Salt Lake weather office changed locations several times. In succession, the office was located at the following addresses:

March 19, 1874, to June 29, 1876: Corner room on the third floor of the "Exchange Building" or "Godbe Building" on the southeast corner of East Temple and First South Streets.

June 29, 1876, to July 31, 1891: In two rooms on the fourth floor of the Wasatch Hotel, southeast corner of Main and Second South Streets.

July 31, 1891, to March 15, 1899: Board of Trade Building at 154 West Second South Street, in rooms 50, 51, and 52 on the 5th floor.

March 15, 1899, to July 1, 1909: Southeast corner of Second South and West Temple Streets, on the 6th floor, rooms 601, 628, and 629. On July 1, 1904, the office quarters were expanded to include rooms 630 and 631.

July 1, 1909, to December 1, 1932: Boston Building on the corner of Main Street and Exchange Place occupying office rooms 1103 through 1107 in the east end of the penthouse and the east corner of the garret. Starting on May 1, 1928, an additional office was opened at the new airport west of downtown Salt Lake City.

December 1, 1932, to August 15, 1954: 501 Federal Building located at Main and Fourth South Streets.

August 15, 1954, to present: The city office was closed and its functions moved to the airport office.

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Figure 2.

The Wright brothers ushered in the flying age and with it the demand for supporting airports around the country. As mentioned above, the Weather Bureau expanded their mode of operation to meet this challenge. On May 1, 1928, the Weather Bureau established a first-order weather station at the Salt Lake Municipal Airport, 3-3/4 miles west-northwest of the downtown Federal Building at latitude 40° 46' and longitude 111° 58'. The station was located in a small house in the southeast corner of the airport complex, east of the United Airlines hanger. Elevation at the observing site was 4222 feet ASL.

The airway and pibal observations began on the opening date with the first weather observation being taken at 6:00 a.m. May 1, 1928. The wind anemometer was located 47 feet above the ground. The thermometers were installed in a standard Weather Bureau instrument shelter with the thermometers 5 feet above the ground. The precipitation gages were placed approximately 6 feet west of the shelter with the base on the ground and top or opening 3 feet On June 11, 1933, the weather-observing above the ground. equipment was moved 800 feet north of the original location to the roof of the Airport Administration Building which was a two-story structure. The temperature apparatus was installed in a standard Weather Bureau instrument shelter with the thermometer being located 5 feet above the roof and 33 feet above ground level. The rain gages were installed on the same roof, about 20 to 25 feet immediately north of the instrument shelter. The wind instrument was 18 feet above the second-story roof or 46 feet above ground level.

During the winter of 1943-1944, a third floor was added to the Administration Building. Although the instrument shelter was able to remain in the second-story roof, just south of the new third story, the rain gages were moved to the roof of the third floor on April 1, 1944, making them 41 feet above ground level.

On July 2, 1954, the station was moved to the one-story Federal Aviation Agency - Weather Bureau Office building at 174 North 2300 West Streets or some 325 feet southeast of the previous location. The wind instruments were 33 feet above the ground, temperature instruments 6 feet above the ground, and rain gages 3 feet above the ground.

On July 29, 1960, automatic temperature and wind-measuring equipment were moved to near the major runway 3600 feet northwest of the Government building.

On March 8, 1978, the station was moved to its present location in the new Executive Terminal building at 337 North 2370 West Streets approximately 1/4 mile north of the 1954 location. Wind, temperature, dew point, and visibility measuring equipment are remote sensors located adjacent to the main airport runway.

Precipitation, solar radiation, and standby temperature measuring equipment are located about 300 feet east of the station.

Ceilometer equipment, which automatically observes and records cloud heights, was first installed at the airport on March 5, 1946. The projector was located 1463 feet north of the observing quarters, and the ceilometer scanner was located on the roof of the first floor of the Administration Building about 80 feet north of the observing quarters. On October 31, 1958, a rotating beam ceilometer, with a baseline of 800 feet, was installed 1/4 mile south of the main airport runway, and then on December 12, 1976, relocated to be near the south end of the main airport runway about 4700 feet west-northwest of the Forecast Office.

The present state of the art of both observing and forecasting the weather is constantly being re-evaluated for improvement. computer-age technology is replacing the older, and often times, cumbersome methods of producing the various weather products issued to public and special user groups. Weather forecasting programs have been developed that are especially tailored for special problem areas. The fire-weather forecasting program is a typical Specifically trained meteorologists utilize mobile self-contained weather stations and report directly to forest or range fire fighting crews. They give on-the-spot observations and forecasts of wind direction and speed, temperature, humidity, and other selected parameters required for maximum support to the fire fighting crews. Other special weather support programs include those in fruit-frost cooperative observing and forecasting, air pollution, aviation, and local forecasting. All these are in addition to regular public service duties.

Climatology is an input in many of these programs. Certain combinations of pressure, wind, moisture, modified by topographical combinations yield specific characteristics of "weather". The only problem is that the atmosphere is so vast in its global scale that local combinations of specific weather yielding parameters are very difficult to duplicate. "Man" by his very existence is constantly changing the landscape--laying miles or acres of pavement and cement, building heating and cooling systems, and other modern-day miracle aids--and in the process influencing Mother Nature's natural local temperature and wind circulation patterns.

IV. SELECTED HIGHLIGHTS OF THE SALT LAKE CITY AIRPORT WEATHER RECORDS

The longest period of extremely hot days (consecutive days with maximum temperatures 95 degrees or higher) was 20 days from July 11 through July 30, 1960, and another 20 day period from July 23 through August 11, 1978.

The earlier episode takes the record as the hottest extended period on record. During that 20 day period there were 9 consecutive days (July 14 through July 22) followed by 6 consecutive days (July 24 through July 29) in which the daily maximum temperature was over 100 degrees. The average daily maximum during this 20 day period was 101.3 degrees. The hottest day was on July 26 when the high was 107 degrees which has remained the hottest day on record at the Salt Lake City airport. Minimum temperatures during the same 20 day period ranged from 57 degrees on the 12th to 74 degrees on both the 27th and 28th.

In the later extended hot period (July 23 through August 11, 1978) there were 6 consecutive days with 100 degrees or higher. The average daily maximum was 98.4 degrees and minimum temperatures during the period were mostly in the 60s with the lowest of 58 degrees on the morning of July 23rd, and the warmest of 71 degrees on the morning of July 28th. The warmest maximum during this period was 103 degrees on July 24th, the anniversary day of when the Mormon pioneers entered the Salt Lake Valley. The pioneers arrived during the climatological hottest time of the year in the Salt Lake Valley.

Both of these extended hot periods were finally broken by cold frontal passages and an outbreak of showers or thundershowers. During the 1960 hot spell, the maximum of 98 degrees on July 30th lowered to only 90 degrees on July 31st when a cold front moved across the Salt Lake Valley. Rainfall at the airport on July 31st was .02 inches. At the end of the 1978 hot spell, the maximum of 98 degrees on August 11 lowered to only 85 degrees on August 12. Again, a cold front moved through the Salt Lake Valley this time dumping .72 inches of rain at the airport.

When the all-time high temperature of 107 degrees occurred on July 26, 1960, the surface winds, for the most part, were southerly 5-12 mph through the night and morning hours shifting to northerly 5-9 mph during the afternoon. At 3 p.m. the temperature was 103 degrees with 8/10 of the sky covered by a combination of cumulonimbus and cirrus type clouds. The clouds thinned out during the next couple hours and the record maximum temperature of 107 was reached. The morning minimum on the 26th of July was 63 degrees, which was only one degree warmer than the normal minimum for the date. Increasing cloudiness the following day, July 27th, accounted for a slight drop in the maximum down to 104 degrees. Maximum temperatures continued to decrease the next two days—down to 101 on the 28th, and finally on the 29th, down to an even 100 degrees.

February 9, 1933, was the date of the lowest temperature ever recorded at the Salt Lake airport-30 degrees below zero. The mercury managed to climb to 8 degrees above zero for the afternoon maximum. It was cold again the next day, February 10th, with a minimum of 26 degrees below zero. But on February 11th, the short

cold snap was broken when a snow storm moved over the area and the minimum temperature rose to l degree above zero.

The maximum peak wind speed gust of 94 mph occurred on June 3, 1963, during passage of a very strong cold front that was accompanied by heavy thundershowers. During the early morning of the 3rd, the surface wind was southerly with a brief wind gust to 25 mph at 4 a.m. By 5 a.m., the wind shifted and blew lightly from the north, then by 8 a.m. was blowing from the south again at 10 to 18 mph. Cumulonimbus (thunderhead clouds) developed by 11 a.m. and the surface wind became variable 10 to 18 mph and light showers developed over the area. The cold front struck the airport at 3:05 p.m. accompanied by heavy thundershowers with the surface wind shifting to westerly and increasing to 58 mph with gusts to 94 mph. The peak gust of 94 mph lasted but a brief moment, but wind gusts ranging from 40 to 70 mph were clocked for about 7 minutes. The wind gradually subsided to an average of 15 to 25 mph by 3:30 p.m.

This same storm of June 3, 1963, caused considerable damage to a small area when it spawned a tornado in Bountiful, Utah, just to the north of Salt Lake City. The tornado touched down around 3 p.m. near the Bountiful Elementary School, with an estimated \$20,000 damage to the school. The tornado moved toward the east northeast for about 1500 to 2000 feet, then lifted off the ground. The funnel then came down again a mile or so east northeast of the school. Debris from the school was found 5,000 feet northeast of the school. No lives were lost and no injuries were reported.

The greatest seasonal snowfall (totaled during a 12 month period that begins July 1 and ends June 30) fell during the 1951-52 season and totaled 117.3 inches. The second highest seasonal snowfall was 110.8 inches recorded during the 1973-74 season and the third highest seasonal snowfall was 98.0 inches during the 1983-84 season. The mean seasonal snowfall for the 58 season period from 1928-29 to 1985-86 is 58.9 inches.

The season with the least number of days with snowfall was 1939-40. There were only 9 days during the entire season that experienced snowfall of 0.1 inch or more. This was in sharp contrast to the record setting 1973-74 season when there were 52 days with 0.1 inch or more of snowfall. The average number of days with snowfall each season is 34.

The snowiest month of the year appears to be January with an average of 9 days with snowfall of 0.1 inch or more, and with an average monthly snowfall total of 13.2 inches. However, the greatest monthly snowfall total at the Salt Lake Airport was 41.9 inches that fell in March 1977. It may be surprising to many to note that significant amounts of snow can fall as late as April. In April 1974, a total of 26.4 inches of snow fell at the Salt Lake Airport. This not only set the record for the most snow ever accumulated in the month of April, but was also the greatest

monthly snowfall for the entire 1973-74 season. April 1984 was also a very snowy month with a total accumulation of 25.1 inches.

The greatest snowfall in any 24 hour period was 18.4 inches that fell October 17-18, 1984. This snowfall not only broke the previous 24 hour record of 18.1 inches set in December 1972, but it also crushed the previous October record of 8.5 inches also set This record setting snow storm closed schools and sent tree limbs, still with their fall foliage, crashing into power lines. Many electric meters were actually ripped off homes by the falling limbs. Electricity was blacked out to an estimated 20,000 homes and businesses. It was not until 3 days after the snowstorm that the utility company finally got electrical power completely restored. The restoral cost was estimated to be at least \$500,000. City officials estimated the cost for cleaning up fallen and broken tree limbs to be several thousand dollars. In addition to the thousands of trees damaged on private property, it was estimated that at least 10,000 trees were damaged on city property. Slippery roads caused by the snowfall caused a chain reaction accident on the freeway just north of Salt Lake City involving more than 50 vehicles and sending 16 people to the hospital. This snowfall was enhanced in a 25 mile wide band along the Wasatch Front. Very unseasonably cold northwest winds blew across the mid 50 degree temperature surface water of the Great Salt Lake. This resulted in snowfall enhancement along and down wind of the the Great Salt Lake. Section V below explains this local topography effect upon the Salt Lake weather.

The wettest calendar year was 1983 when 24.26 inches of precipitation was recorded. The second wettest was just a year earlier, 1982, with an equivalent liquid water total of 22.86 inches. The driest year was 1979 when only 8.70 inches fell. The normal (based on the period 1951-1980) calendar year precipitation total is 15.31 inches. There is an annual average of 88 days during which 0.01 inch or more of precipitation falls.

April has the distinction of having the highest average monthly precipitation with 2.21 inches followed by March with an average of 1.72 inches. The greatest total monthly precipitation of 7.04 inches fell in September 1982 when moisture from the remains of hurricane Olivia moved north through Utah. The driest month of the year is July with a monthly precipitation average of only 0.72 inches. The next driest is September with a monthly average of 0.89 inches.

The maximum 24 hour precipitation (not confined to a calendar day) ever recorded at the Salt Lake Airport was 2.41 inches on April 22-23, 1957. The maximum one hour precipitation of 1.94 inches was recorded during heavy thundershowers between noon and 1 p.m. on July 13, 1962. On that same day, hailstones up to one half inch in diameter fell and the total 24 hour rainfall was 2.28 inches.

Thundershowers on September 5, 1970, gave 2.19 inches of precipitation which was the greatest calendar day precipitation ever recorded at the airport. The storms on this day were associated with a strong cold front. High winds lashed across the area, causing hundreds of traffic accidents. Surface wind gusts to 40 mph were observed at the airport, and gusts to 55 mph were reported elsewhere in the Salt Lake Valley. Descret News reported that all intersections on the 7th East thoroughfare were flooded during the early morning hours, as were many other intersections in the city.

V. LOCAL TOPOGRAPHY EFFECTS UPON THE SALT LAKE WEATHER

Snowfall enhancement along and downwind of the Great Salt Lake is often observed. On occasion it appears that the snow area extends continuously from the lee shores of the lake to the windward slopes of the nearby mountains. The theory of this The Great Salt Lake, due to its high phenomenon is as follows. salt content, never freezes during the winter. Cold air masses moving from the Pacific or out of Canada during the winter months are sometimes much colder than the water surface of the lake. these cold air masses pass over the lake, the air is modified by the absorption of heat and moisture rising off the surface of the lake and becomes more unstable. An example would be air carried by west to northwest winds blowing across the Great Salt Lake in the rear of a winter low pressure system gaining both moisture and instability over the water. Then the induced vertical motion due to differential friction as the air moves off the water to land results in bands of heavy snow in the valley. Nearby mountain ranges force the air to be cooled by the orographic lift up the mountain slopes. This orographic lift often prolongs and increases precipitation along the windward slopes of the mountains. One such lake-effect snow storm occurring October 17-18, 1984 was documented by WSFO Salt Lake City forecaster David Carpenter in NOAA Technical Memorandum NWS WR-190.

The surface wind pattern around the Salt Lake Valley and adjacent bench areas is greatly influenced by local topography. For example, the Great Salt Lake is responsible for local lake breezes and the surrounding mountains and valleys for canyon winds.

The Great Salt Lake breeze is caused by the temperature difference of the colder lake surface and the warmer adjacent land when it is heated by the sun. Because the air over the land is warmer, it rises and is replaced by the cooler air from the lake surface. This breeze usually blows on relatively calm, sunny, summer days, and alternates with the oppositely directed nighttime land breeze.

Canyon breezes occur almost every night when the sky is clear or partly cloudy. They are the result of the radiational cooling of the surface layer of air on the mountain slopes. This air cools much faster than air at the same level in the free atmosphere over the valley and, hence, sinks. The air aloft flowing toward the mountain slope to replace this sinking air gives a circulation similar to the sea-breeze circulation. Such breezes usually do not extend more than a few miles into the valleys and rarely reach excessive speeds. In fact, during the summer these cool winds are a refreshing change from the heat of the day. Only when this nocturnal cooling process is reinforced by large scale circulation do the winds reach high speeds.

The strongest canyon winds develop when the ambient pressure field augments the normal mountain-valley winds. This takes place when the pressure is high over Wyoming and significantly lower in Utah and/or Arizona. Occasionally the cold polar or arctic air associated with high pressure in Wyoming is deep enough to spill Sometimes this can result in jet-effect over the mountains. easterly winds blowing out of the mouths of canyons and steep slopes of the Wasatch Mountains into the nearby plains. In extreme cases these winds can exceed hurricane force. They are mainly limited to the mouths of the canyons, especially in winter, but in some circumstances these winds can extend into the valley. Canyon winds can cause snow to drift over heavily traveled highways, break and, in general, make topple structures, tree limbs. unpleasant.

An example of very strong canyon winds occurred on April 4-5, 1983. In this instance a very strong high pressure system moved into Wyoming with significantly lower pressure in Southern Utah, Arizona, and Nevada. Ferocious winds developed and roared out of the mouths of the canyons along the Wasatch Front Range in northern One gust of wind to 104 mph was recorded at Hill Air Force Utah. Base and wind gusts to 65 mph or more were common. Five large electrical transmission structures located between Farmington and Layton, Utah, were blown down and tangled like match sticks. high winds turned power lines into electrical spaghetti. 12 semi-trailer trucks were overturned by the high winds on Interstate 15 in Davis County. A south bound Union Pacific freight train had 12 of its 36 flatbed cars derail, each of which was carrying loaded truck trailers. Trees, some as large as 100 feet tall, were uprooted. Some of them tore out power lines and damaged nearby property.

VI. AIR POLLUTION AND TRAPPED AIR

Air pollution caused by stagnant air trapped under temperature inversions is another big part of the Salt Lake weather regime. In Salt Lake City, the worst air stagnation occurs with stationary high pressure, both at the surface and aloft, and mainly in the months of November through February. Under this synoptic pattern, the wind is largely controlled by local topography rather than ambient pressure gradients; hence, it is very light and subject to diurnal variation. These light winds, when combined with frequent

snow cover during the winter months, result in strong nighttime radiational cooling. At the same time there is usually warm-air advection aloft. This creates a strong surface based temperature inversion under which cold, stable air is trapped in the valley. This air often becomes very stagnant. Such a stagnant layer is generally confined to below 6,000 feet ASL and diurnal heating is frequently unable to activate much vertical mixing in the stagnant layer. Under these conditions, bench locations above 6,000 feet ASL surrounding the valley often enjoy good ventilation or movement of air and may be much warmer than valley locations. This is due to warm advection and relatively mild temperatures above the lower temperature inversion as well as the fact that the wind above 6,000 feet ASL is usually still controlled by pressure gradients and frequently stronger than the lower level winds.

There are situations that can allow some air mixing in the Salt Lake Valley that may present a problem at the surrounding higher elevations. This can happen when there is a subsidence inversion or stable layer of air between about 6 and 12 thousand feet. Subsidence is a descending motion of air in the atmosphere. A subsidence inversion is a temperature inversion produced by the adiabatic warming of this layer of subsiding air. In an adiabatic process compression or descending motion always results in warming, rising motion results in expansion and cooling. Surface heating usually allows mixing of the air to the base of this stable layer aloft, which gives a moderate mixing depth of air in the valley. However, if the bases of the stable layer is at or just above the surrounding mountain areas, surface heating may not affect it so that it may severely restrict the vertical transport of pollutants.

VII. SOLAR ENERGY AND SKY COVER

Salt Lake City is one city out of a 38-station network operated by the National Oceanic and Atmospheric Administration (NOAA) that takes solar radiation observations. The measuring instrument is called a pyranometer which measures direct and diffuse radiation on a horizontal surface. Diffuse radiation is scattered beam solar radiation, and direct radiation is parallel beam radiation from the sun.

Solar energy is in the form of electromagnetic waves that travel through space at 186,000 miles per second. Some of these waves are visible as light, but most are either too short to be seen, such as ultraviolet rays, or too long, such as infrared rays. These waves arrive at the top of the earth's atmosphere carrying energy at a near constant rate of 444 BTUs per hour for every square foot of area. Some of this energy is absorbed by the earth and its atmosphere, but a far greater part is returned to space again by reflection from clouds, or scattering caused by the radiation being deflected by small particles or air molecules and sent out in all directions. The average amount falling over a year's time on a square foot of ground in the United States is only

about 13% of the amount that arrived at the top of the earth's atmosphere or about 58 BTU's per hour (17 watts).

The amount of energy received at a given location is also dependent on the angle of the sun and the length of day. It is important to note that 20 minutes of sunshine at noon delivers much more energy than 20 minutes near sunrise or sunset.

The depletion of solar radiation is greatest by reflection from the upper surface of clouds. On some days 80 percent of the possible sunlight energy may be reflected back into space. It has been estimated that the total energy received at the surface of the earth during completely overcast days is only 22 percent of the possible sunshine.

The average annual amount of sky cover at the Salt Lake Airport (sunrise to sunset), based on a range of 0/10 for no clouds or obscuring phenomena to 10/10 for overcast conditions, is 5.5/10. The months with the highest average amount of sky cover are December and January with 7.1/10 and 7.2/10 respectively. The months with the lowest average sky cover are July and September with both averaging 3.5/10, followed closely by August with 3.6/10.

Based on the definition that the sky is cloudy with 8/10 to 10/10 of cloud cover, partly cloudy with 4/10 to 7/10 cloud cover, and clear with 0/10 to 3/10 cloud cover; there is an annual average of 134 cloudy days at the Salt Lake Airport, 103 partly cloudy days, and 128 clear days. These values are somewhat misleading because they are based on total cloud cover without any distinction between opaque and thin clouds. Some of the days listed in our climatological data as cloudy may have experienced only high, thin clouds covering 8/10 to 10/10 of the sky with but only a few tenths of these clouds actually dense enough to block out the sun or sky.

Because solar energy is being increasingly emphasized as an alternative to fossil fuels, a more meaningful statistic than amount of sky cover may be the percent of possible sunshine received. At the Salt Lake Airport, the annual average percent of possible sunshine received is 70 percent. The sunniest days of the year are in July and September with each of these months receiving 84 percent of possible sunshine. The lowest average amount of possible sunshine is received in December with 40 percent followed by January with 48 percent.

Sunlight is usually measured in footcandles, the illuminance provided by a light source of one candle at a distance of one foot and only the visible portion of the solar spectrum is used. Full sunlight, when the sun is at its zenith, produces an illuminance of the order of 10,000 footcandles on a horizontal surface compared to full moonlight, which provides an illuminance of only about 0.02 footcandles.

The energy from this sunlight is measured in kilojoules per square meter or the langley unit which is defined as a unit of energy per unit area and is equal to one gram-calorie per square centimeter. To convert kilojoules to langleys, you multiply the kilojoule value by 0.02390.

An accurate conversion of these illumination/radiation factors is impossible, but a rough comparison on a cloudy or a cloudless day is as follows: to convert langley per minute to footcandles on a cloudless day, multiply by 6700. To convert langleys per minute to footcandles on a cloudy day, multiply by 7000.

The mean daily solar radiation (in langleys) at Salt Lake City by month is as follows: January 163, February 256, March 354, April 479, May 570, June 621, July 620, August 551, September 446, October 316, November 204, and December 146 for an annual average of 394.

VIII. ACKNOWLEDGMENTS

Mr. Wilbur E. Figgins (now retired) is responsible for the original research and preparation of this document. Since his retirement in 1985, Mr. Alexander Smith of the Salt Lake City WSFO staff has undertaken the responsibility to keep it updated as well as computerizing much of the content.

We would like to thank Mr. Bill Alder, Meteorologist in Charge, Salt Lake City Weather Service Forecast Office, for his encouragement, support, and advice which helped us complete this project. We are very grateful to Mr. L. W. Snellman, former Chief, Scientific Services Division, Western Region Headquarters, for his initial review, suggestions, candor, expertise, and encouragement to pursue the project. Additionally, our gratitude to Mr. Dean Jackman, Deputy Meteorologist in Charge, Salt Lake City WSFO, for his assistance in historical research, and for the use of information from his air pollution studies. Finally, our thanks to all individuals, past and present, whose attempts at organizing these records made our work easier.

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SCALE: 1 Inch Equals 2 Miles

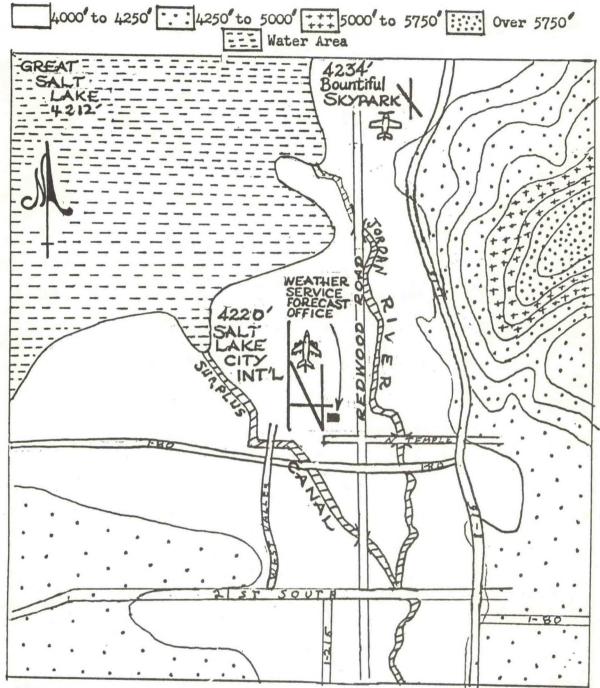


Figure 3. Local Topography and Map of Salt Lake Airport and Vicinity.

XI. TABLE 1.

SUNRISE AND SUNSET AT SALT LAKE CITY, UTAH MOUNTAIN STANDARD TIME

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| .V. | Set P.M. | 5 24 5 23 5 22 5 21 5 20 | 5 19 5 18 5 17 5 15 5 15 | 5 14 5 13 5 12 5 11 5 10 | 5 09 5 08 5 08 5 07 5 06 | 5 06 5 05 5 04 5 03 | 5 03 5 02 5 02 5 02 5 01 | |
| NOV | Rise A.M. | 6 58 6 59 7 00 7 02 7 03 | 7 04 7 05 7 06 7 07 7 09 | 7 10 7 11 7 12 7 13 7 15 | 7 16 7 17 7 18 7 19 7 20 | 7 22 7 23 7 24 7 25 7 26 | 7 27 7 28 7 29 7 30 7 31 | _ |
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| ŏ | Rise A.M. | 6 24 6 25 6 27 6 27 6 28 | 6 29 6 30 6 31 6 32 6 33 | 6 3 4 6 8 8 6 9 8 6 9 8 6 9 8 6 9 8 6 9 8 6 9 8 6 9 8 6 9 6 9 | 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 6 45 6 47 6 48 6 49 6 50 | 6 52 6 53 6 53 6 55 6 55 | 6 57 |
| SEPT. | Set P.M. | 7 01 6 59 6 57 6 56 6 56 | 6 52 6 51 6 49 6 47 6 46 | 6 44 6 42 6 41 6 39 6 37 | 6 36 6 34 6 32 6 31 6 29 | 6 25 6 25 6 25 6 20 8 6 20 | 9 6 19 0 6 17 1 6 15 2 6 14 3 6 12 | |
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Add one hour for Daylight Saving Time if and when in use.

Prepared by
NAUTICAL ALMANAC OFFICE
UNITED STATES NAVAL OBSERVATORY
WASHINGTON, D.C. 20390

U.S. GOVERNMENT PRINTING OFFICE WASHINGTON: 1965

Normals, Means, And Extremes

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NOTE: NORMAL COOLING DEGREE DATA PUBLISHED IN THE 1982 ANNUAL WERE FOR THE 1951-1980 PERIOD.

MORMALS - Based on record for the 1951-1980 period.

MEANS - Length of record in (a) is for complete data years.

EXTREMES- Length of record in (a) may be for other than complete or consecutive data years. Date is the most recent in cases of multiple occurence.

WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north, 00 indicates calm.

FASTEST MILE WIND - Speed is fastest observed 1-minute value when direction is in tens of degrees.

(a) Length of record, years, through the oursent Vear unless otherwise noted, based on January date.
(b) 70° and above at Alaskan stations.

T Less than one half.

ELANK entries denote missing or unreported data.

Means and extremes above are from existing and comparable exposures. Amnual extremes have been exceeded at other sites in the locality as followed:

Following the precipitation Maximum in 24 hours: 2.72 in May 1901.

NORMALS, MEANS, AND EXTREMES TABLE NOTE(S):

XIII. Table 3a.

84 CLIMATOGRAPHY OF THE UNITED STATES NO.

ELEVATION: AND PRECIPITATION 1951-80 DAILY NORMALS OF TEMPERATURE, HEATING AND COOLING DEGREE DAYS

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THE DAILY VALUES PRESENTED IN THESE TABLES ARE NOT SIMPLE MEANS OF OBSERVED DAILY VALUES. THEY ARE INTERPOLATED FROM THE MUCH LESS VARIABLE MONTHLY NORMALS BY USE OF THE NATURAL SPLINE FUNCTION. IN LEAP YEARS USE THE FEBRUARY 28TH VALUES FOR THE 29TH AND ADJUST THE DEGREE DAY AND PRECIPITATION MONTHLY TOTALS ACCORDINGLY. DAILY PRECIPITATION NORMALS WERE ALSO COMPUTED USING THE NATURAL SPLINE FUNCTION AND DO NOT EXHIBIT THE TYPICAL DAILY RANDOM PATTERNS. HOWEVER, THEY MAY BE USED TO COMPUTE NORMAL PRECIPITATION OVER TIME INTERVALS.

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rable 3b

CLIMATOGRAPHY OF THE UNITED STATES NO. 84

DAILY NORMALS OF TEMPERATURE, HEATING AND COOLING DEGREE DAYS AND PRECIPITATION 1951-80

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THE DAILY VALUES PRESENTED IN THESE TABLES ARE NOT SIMPLE MEANS OF OBSERVED DAILY VALUES. THEY ARE INTERPOLATED FROM THE MUCH LESS VARIABLE MONTHLY NORMALS BY USE OF THE NATURAL SPLINE FUNCTION. IN LEAP YEARS USE THE FEBRUARY 28TH VALUES FOR THE 29TH AND ADJUST THE DEGREE DAY AND PRECIPITATION MONTHLY TOTALS ACCORDINGLY. DAILY PRECIPITATION NORMALS WERE ALSO COMPUTED USING THE NATURAL SPLINE FUNCTION AND DO NOT EXHIBIT THE TYPICAL DAILY RANDOM PATTERNS. HOWEVER, THEY MAY BE USED TO COMPUTE NORMAL PRECIPITATION OVER TIME INTERVALS.

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Table 3c.

CLIMATOGRAPHY OF THE UNITED STATES NO. 84

OF TEMPERATURE, HEATING AND COOLING DEGREE DAYS AND PRECIPITATION 1951-80 DAILY NORMALS

| | 222 FT. | | PRECIP | 000333 | 00000 | 88888 | 00000 | 88888 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | .03 | . 92 | 15.31 | TER THAN | |
|---|--|-------------|----------------|---|---|---|----------------------|---|---|------------------------------|---------|-------------------|-----------|----------|
| | SALT LAKE CITY WSFO LATITUDE: 40 47N LONGITUDE: 111 57W ELEVATION: 4 | JUNE AUGUST | DAY | <u> </u> | 55555 | ====0 | 00000 | σσωωω | 88777 | 9 | 311 | 981 | GREA | |
| 1001 | | | DEGHDD | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 0 | 0 | 5802 | N 1 BUT | |
| 101101 | | | A | E A V G | 78 78 78 77 | 7 | 76 76 76 | 75 75 74 74 | 7 7 7 7 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 72272 | 7.1 | 74.9 | 51.7 | SS THA |
| 11111 | | | PERATUR MIN | 66233 | 62 62 61 61 | 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 233000 | 000000 000000 | 725 725 725 725 725 | 99 | 59.7 | 39.3 | * = LE | |
| 110 111 | | | TEMP | & & & & & & & & & & & & & & & & & & & | $\mathcal{C}_{\mathcal{C}}}}}}}}}}$ | 911 | 066 | 6 8 8 8 8 | 87 87 86 86 | 98 | 90.0 | 64.0 | NCHES: | |
| ם מוטח חו | | | PRECIP | mmmmmen | 22222 | 00000 | 22222 | ~~~~ 00000 | Neces 6 | .03 | .72 | ANNUAL | UNITS = I | |
| | | | 0 A Y C D D | 0000- | | 77666 | | 44444 | 4 4 4 m w | 13 | 388 | | TATION | |
| 211111 | | | DEG HDD | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 0 | 0 | | PRECIPI | |
| | | | RE A V·G | 4 4 7 7 7 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 76 76 77 | 77 7.7 7.8 7.8 7.8 | 78 78 79 79 | 27 27 29 20 20 | 79 79 78 78 | 78 | 77.5 | | DEG F; | |
| 200 | | | PERATUR | 00000 00000 | 600000000000000000000000000000000000000 | 00000 00000 | 33337 | 33333 | 99999 98888 | 63 | 61.8 | | = S1I | |
| , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | TEM | 00666 | 00000 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 0 0 0 0 4 4 4 4 4 | & & & & & & & & & & & & & & & & & & & | 0 0 0 0 0 4 4 4 4 4 | 94 | 93.2 | | TURE UN | |
| | | | PRECIP | 00000 | 44666 | m m m m m | 00000 | 00000 | 88888 | | 76. | 2.61 | ; TEMPERA | |
| | | | CDD | 20000 | ммммм | 444NŃ | តហហហហ | 9 7 7 8 | 88660 | | 152 | 851 | DEG F | |
| | | | DEGHOO | пппппп | ~~~~~ | NNNN | 0 | | | | 23 | 53 | 7E = 65 | |
| | | | N E | RE AVG | იიბიი 4444 დ | 00000 00000 | 67 67 68 68 | 68 69 69 70 | 70 71 71 72 | 227 227 23 24 24 | | 68.3 | 73.7 | MPERATUR |
| | | | PERATU | 4 4 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.0000000000000000000000000000000000000 | 33222 | 000000 04440 | 50 50 50 50 50 50 50 50 50 50 50 50 50 5 | 72 72 72 72 72 83 83 | | 53.3 | 58.4 | ASE TEI | |
| | | | TEME | 78 79 79 79 | 800 800 118 | 88888 | 88888 844 85 | 85 86 86 87 | 88 88 89 89 | | 83.3 | 88.9 | AYS B | |
| | 427598 | | DAILY | -0w4w | 6 8 9 10 | 125.12 | 16 17 19 20 | 222 222 254 254 | 25 23 30 30 | 31 | MONTHLY | SUMMER NOTES : | ш | |
| | | | | | | | 23 | | | | | | | |

= LESS THAN 1 BUT GREATER THAN 0 THE DAILY VALUES PRESENTED IN THESE TABLES ARE NOT SIMPLE MEANS OF OBSERVED DAILY VALUES. THEY ARE INTERPOLATED FROM THE MUCH LESS VARIABLE MONTHLY NORMALS BY USE OF THE NATURAL SPLINE FUNCTION. IN LEAP YEARS USE THE FEBRUARY 28TH VALUES FOR THE 29TH AND ADJUST THE DEGREE DAY AND PRECIPITATION MONTHLY TOTALS ACCORDINGLY. DAILY PRECIPITATION NORMALS WERE ALSO COMPUTED USING THE NATURAL SPLINE FUNCTION AND DO NOT EXHIBIT THE TYPICAL DAILY RANDOM PATTERNS. HOWEVER, THEY MAY BE USED TO COMPUTE NORMAL PRECIPITATION OVER TIME INTERVALS.

Table 3d

CLIMATOGRAPHY OF THE UNITED STATES NO. 84

DAILY NORMALS OF TEMPERATURE, HEATING AND COOLING DEGREE DAYS AND PRECIPITATION 1951-80

| | | | | | | | | | | | | | Z | |
|--------------------------------|---|------------------|----------------|--|--|---------------------------------|---|---|--|----------------------|----------------------|----------------------|-----------|--------|
| LO AIND FINECTFITATION 1801 OU | LATITUDE: 40 47N LONGITUDE: 111 57W ELEVATION: 4222 FT. | OCTOBER NOVEMBER | PRECIP | 00000 | 00000 | 00000 | 00000 | 00000 | 4000. 4400. | | 1.22 | 15.31 | TER THAN | |
| | | | CDD | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | | 0 | 981 | T GREA | |
| | | | DEG | 2222 | 2222 | 00000 44400 | 26 26 26 27 27 | 22888 | 000 m m | | 759 | 5802 | N 1 BU | |
| | | | 9 > | 4 4 4 4 4 3 12 12 4 4 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 4444 | 00000000000000000000000000000000000000 | 37 337 36 36 | 335 34 34 34 | | 39.7 | 51.7 | SS THAN | |
| | | | RATURE | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 3322 | 330 | 2288 288 288 288 288 | 27 . 27 . 27 . 26 . | 22266 | | 29.5 | 39.3 | * = LE | |
| | | | TEMPE MAX M | 557 557 56 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 00000 00000 | 04444 02288 | 4 4 4 4 4 4 4 4 6 6 4 4 6 6 9 9 9 9 9 9 | 4 4 4 4 4 10 10 4 4 10 | | 50.2 | 64.0 | CHES: | |
| | | | ۵ | | | | 4444 | 4444 | 4 4 4 4 4 | 4 | 4 | NUAL | NI = S | |
| IL DA | | | PRECIE | 00000 | | 00000 | 00000 | 00000 | 00000 | 0 | 1.1 | AZZ | N UNIT | |
| DEGRE | | | CDD | | 00000 | 00000 | 00000 | 00000 | 00000 | 0 | 2 | | ITATIO | |
|)LING | | | DEG | 7 7 8 8 8 | 88555 | 00000 | | 4 4 T T T D | 4 7 7 8 1 8 | 19 | 377 | | PRECIP | |
| 200 | | | E A V G | 8887 2000 | 55 55 56 56 56 | លេល | 200000 200000 | 00004 1000 | 24 4 4 8 8 4 4 4 7 4 4 4 4 4 4 4 4 4 4 4 | 46 | 53.0 | | EG F; | |
| NG AIN | | | ERATUR | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 4 4 4 4 4 & S S S S - | 4 4 4 4 4 1 1 0 0 0 | 55588 55688 56888 | 337 | 88888 88888 | 34 | 39.3 | | ITS = D | |
| UEALL | | | TEMP | 44 48 50 50 50 50 50 50 50 50 50 50 50 50 50 | 727707007 | 66669 | 66 65 65 65 65 | 99999 44885 | 00000 | 59 | 66.7 | | RE UN | |
| RAIORE, | | | RECIP | | 33333 | 33333 | m m m m m | mmmmm 00000 | mmmmm 00000 | | . 89 | 3.25 | TEMPERATU | |
| ILMFER | | | | DAY CDD PF | വവധധ | NNN44 | 4 W W W W | ~~~~N | NNNN | W | | 44 | 102 | DEG F; |
| DAILI NORMALS OF | SALT LAKE CITY WSF0 | SEPTEMBER | | DEG | | - 0000 | 0000m | W W 4 4 4 | 44000 | ووووو | | 26 | 1233 | R = 65 |
| | | | E A V G | 0007 | 669877 | 666 666 656 656 656 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 622 | 600 | | 65.0 | 52.6 | MPERATUR | |
| | | | ERATUR | N N N N N N N N N N N N N N N N N N N | 22233 22232 | 21150 | 0 6 4 4 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 84 74 74 74 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | 50.0 | 39.5 | SE TE | |
| | | | | | | TEMP | 88888 7774 4 | 88888 48888 | 88888 | 80 73 79 78 | 78 77 77 76 | 76 75 75 74 | | 80.0 |
| | 427598 | | DAILY | - N ₪ 4 ₪ | 978800 | - N W 4 M | 2002 | 12222 | 26 27 28 30 | 31 | MONTHLY | AUTUMN . | EGREE | |
| | | | | | | | 01 | | | | | | | |

THE DAILY VALUES PRESENTED IN THESE TABLES ARE NOT SIMPLE MEANS OF OBSERVED DAILY VALUES. THEY ARE INTERPOLATED FROM THE MUCH LESS VARIABLE MONTHLY NORMALS BY USE OF THE 29TH AND ADJUST THE DEGREE DAY AND PRECIPITATION MONTHLY TOTALS ACCORDINGLY. DAILY PRECIPITATION NORMALS WERE ALSO COMPUTED USING THE NATURAL SPLINE FUNCTION AND DO NOT EXHIBIT THE TYPICAL DAILY RANDOM PATTERNS. HOWEVER, THEY MAY BE USED TO COMPUTE NORMAL PRECIPITATION OVER TIME INTERVALS.

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The following graphs, Figures 4a - 4d are smoothed average hourly temperature curves made by using the average hourly temperature that was compiled for a 15-year period and then making slight adjustments necessary to incorporate the average synoptic (MST temperature observations (5 a.m., 11 a.m., 5 p.m., 11 p.m.) for the entire period from May 1928 - December 1988.

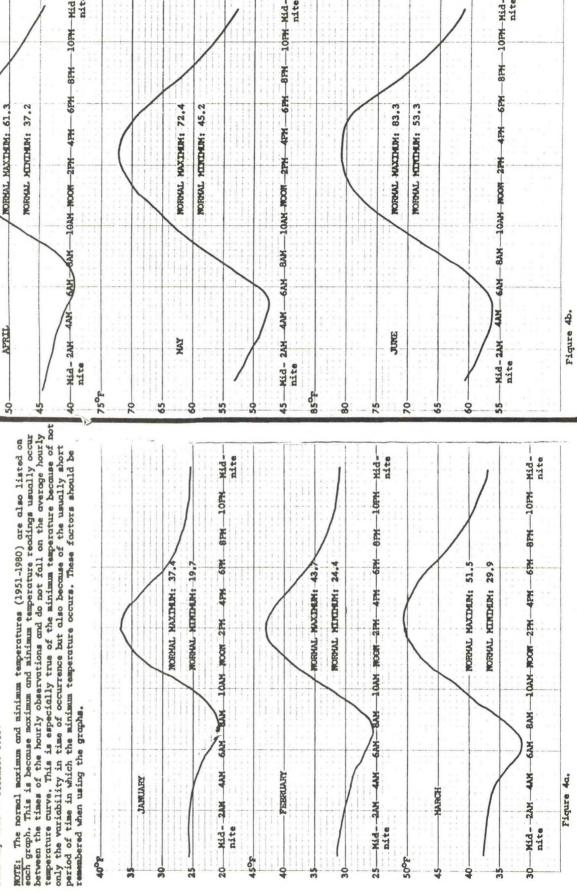
60°F

55

remembered when using the graphs.

-10AM NOOK 2PM 4PM 6PM 8PM 10PM Mid-

NORMAL MINIDAM: 37.2 MORMAL MAXIMIM: 61.3



nite

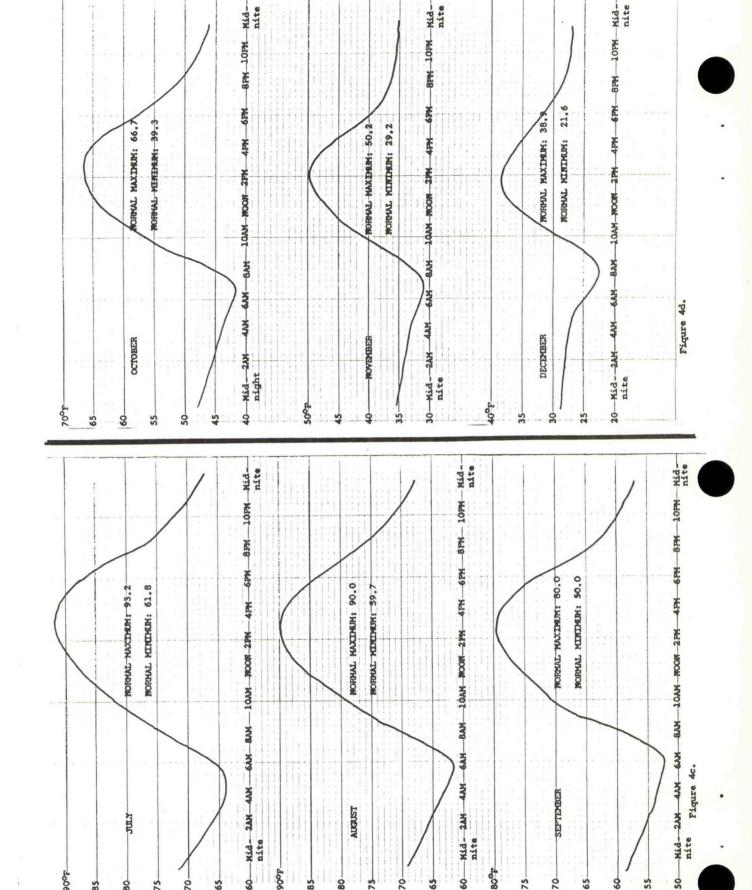
NORMAL MINIMUM: 45.2

NORMAL MAXIMUM: 72.4

8PM 10PM Mid-

APM 6PM

MORNAL MAXIMUM: 83,3 NORMAL MINIMUM: 53.3



900F

TABLE 4a

January 1929 - January 1988

Month: JANUARY

| Day ! | High : | Year : | ; | Low | ! | Year | ; | ! | High | - | Year : | 1 | Low | Year |
|--------|--------|--------|-----|------|---|-------|----------|---|------|---|--------|-----|--|--------|
| 1 1 | Max | of : | | Max | | | ; | 1 | Min | | of ! | ! | Min | of |
| 1 1 | } | Event: | ; | | ! | Event | 1 | 1 | | 1 | Event: | ; | | Event |
| 1 1 : | 58.1 : | 1943 : | ! | 14.2 | ! | | 1 | ! | | | 1934 : | ! | | 1931 |
| 2 : | | 1943 : | ; | 15.5 | ; | 1942 | ! | ! | 36.7 | ! | 1940 : | - 1 | -5.5 | 1974 |
| 1 3 1 | | 1934 : | | | | 1949 | | 1 | 33.7 | ! | 1946 | 1 | -2.7 | 1932 |
| : 4: | | 1956 | ! | 13.2 | ! | 1960 | 1 | ; | 37.1 | | | ! | -13.0 | |
| ; 5; | | 1980 : | ! | 14.5 | 1 | 1971 | 1 | ! | 40.1 | 1 | 1978 : | 1 | -6.2 | 1973 |
| ! | | | | | | | | | | | | | | |
| : 6 : | 54.6 ; | 1948 : | ! | 10.4 | | | 1 | 1 | | | 1965 : | | -13.2 | |
| 7 : | 58.0 | 1956 | | | | 1937 | | 1 | 36.2 | | | | -10.8 | |
| ! 8 ! | 56.6 | 1945 : | ; | | | 1937 | | ! | 39.3 | | | | -10.6 | |
| : 9: | 58.6 | 1953 : | ! | 7.0 | 1 | 1937 | | 1 | 39.6 | | | ; | -11.2 | |
| : 10 : | 56.8 : | 1953 | 1 | 18.1 | ; | 1937 | 1 | ! | 37.0 | ! | 1960 : | 1 | -7.8 | 1937 |
| 1 | | | | | | | | | | | | | | |
| : 11 : | | 1953 | 1 3 | | | 1963 | | ! | 36.0 | | 1971 : | | | 1963 |
| 12 1 | 59.7 ; | | 1 | | | 1963 | | ; | 40.9 | | 1969 : | | -18.0 | |
| : 13 : | | 1980 : | 1 | | | 1963 | ! | ; | | | 1980 : | | -15.0 | |
| 14: | | 1945+1 | ; | 16.9 | | | 1 | ; | 37.9 | | | | | 1932 |
| 1 15 ; | 56.2 | 1943 : | 1 | 19.6 | 1 | 1947 | ! | 1 | 39.8 | ! | 1954 | | -5.6 | 1964 |
| 1 | | | | | | | | | | | | | | |
| 16 : | | 1974 : | | 19.2 | | 1984 | ! | ; | | | 1954 : | | the same of the sa | 1947 |
| : 17 : | 54.4 : | 1982 : | ! | | | 1949 | 1 | 1 | 39.6 | | 1950 | , | 9.0 | |
| : 18 : | 53.3 : | | 1 | | | 1930 | ! | ! | | | 1950 : | | | 1984 |
| 1 19 : | 52.6 : | 1971 : | 1 | | _ | 1963 | 1 | ; | | | 1969 : | | -14.8 | |
| 20 : | 58.3 | 1953 : | , | 6.6 | 1 | 1937 | 1 | 1 | 46.0 | 1 | 1969 : | | -8.0 | 1937 |
| 1 | | | | | | | | | | | | | | |
| : 21 : | | 1943 : | 1 | | | 1937 | | 1 | | | 1943 | | -19.9 | |
| 1 22 1 | 56.3 | 1970 : | 1 | | | 1937 | 1 | ; | | | 1970 : | | -14.0 | |
| : 23 : | 60.0 | | 1 | | | | ! | ; | | | | | -14.0 | 1962 |
| : 24 : | | 1970 : | | 14.0 | | | ! | ; | | | 1952 : | | | 1929 |
| : 25 : | 58.7 | 1953 : | - ; | 7.9 | ; | 1949 | ! | ! | 35.2 | - | 1947 | | -21.7 | 1949 |
| 1 | | | | | _ | | | | | 4 | 1001 | | 75.0 | 1 7040 |
| : 26 : | | 1982 | | | | 1949 | | ! | | | | | -15.3 | |
| : 27 : | | | | | | 1949 | | - | | | 1983 | | | 1949 |
| : 28 : | 56.6 | | | | | 1949 | | ; | 39.2 | | | | -7.8 | |
| : 29 : | 54.3 | | | | | 1949 | | , | | | 1958 : | | -11.6 | |
| 30 1 | 60.7 | 1971 | 3 | 18.2 | ; | 1942 | <u> </u> | 1 | 40.2 | i | 1965 | | -5.8 | 1979 |
| 1 | | 1057 | | 10.5 | | 1053 | | | 40.4 | - | 1000 | | 0.1 | 1 1070 |
| : 31 : | 61.1 | 1971 | - ! | 16.7 | , | 1951 | 1 | 1 | 46.4 | i | 1963 : | | -8.1 | 1979 |
| 1 | | 001 | | | _ | 707 | | | | - | 747 | | | 1 05/ |
| Mnth | | | ; | | 1 | | | i | 47 0 | i | 14/ 1 | | 01.7 | 25/ |
| ; ; | 61.5 | 1982 | - ; | 3.6 | ; | 1963 | i | i | 47.0 | i | 1980 : | | -21.7 | 1949 |

⁺ Also in earlier years

TABLE 4b

February 1929 - February 1988

Month: FEBRUARY

| Day ! | High : Year | ; | Low ! | Year | 1 1 | High | Year | ! | Low : | Year |
|--------|--|------|--------|-------|-----|-------------|----------|-----|---------|--|
| !!! | Max of | ! ! | Max : | of | ; ; | Min | | 1 | Min : | of |
| 1 1 | Event | ! ! | 1 | Event | 1 1 | | : Event: | ! | ! | Event |
| 1 1 1 | 59.1 1963 | | 16.8 | | 1 1 | 38.4 | 1963 1 | ; | -9.0 | 1985 |
| 2 : | 55.5 1953 | | 19.7 : | | 1 1 | 37.8 | 1978 | ; | -4.1 : | 1949 |
| : 3 : | 63.6 1953 | 1 1 | 22.2 : | 1979 | ; ; | 38.1 | 1953 | ! | -10.1 | 1949 |
| 1 4 1 | 59.4 1934 | ! ! | 20.2 ; | 1982 | !!! | 34.8 | 1958 : | ! | -1.1 | |
| 1 5 1 | 61.5 1963 | !!! | 18.2 | 1982 | 1 1 | 37.9 | 1963 | 1 | 0.1 | 1985 |
| 1 | | | | | | | | | | 1 |
| 1 6 : | 63.0 1934 | 1 1 | 20.2 | 1982 | ; ; | 38.0 | 1934 | 1 1 | 0.4 | |
| : 7: | 59.1 1943 | !!!! | 6.0 : | 1933 | 1 1 | 40.7 | 1959 | 1 | -12.2 | |
| 1 8 ! | 60.4 1945 | !!! | 22.2 | 1949 | ! ! | 39.1 | 1957 | 1 | -7.4 : | |
| 1 9 1 | 61.0 1951 | 1 1 | 8.0 : | 1933 | 1 1 | 39.8 | 1938 | | -30.0 : | |
| : 10 : | 67.9 1951 | !!! | 9.5 | 1933 | !!! | 47.7 | 1962 : | ! | -26.4 | 1933 |
| 1 | | | | | | | | | | 1 |
| : 11 : | 65.2 1961 | !!! | 19.2 | 1933 | ; ; | | 1961 | 1 | -0.6 | |
| 1 12 1 | 60.5 ; 1970 | 1 1 | 23.7 : | 1949 | 1 1 | | : 1975 : | 1 | | 1949 : |
| : 13 : | 60.5 1971 | !!! | 18.2 | 1949 | !! | 40.0 | 1954 | 1 | -9.0 | The second secon |
| 14: | | ; ; | 18.8 | 1929 | ! ! | 38.1 | 1982 | 1 | -12.8 | |
| 1 15 ; | | | | 1956 | ; ; | 44.9 | 1986 | - 1 | -3.5 | 1933 |
| 1 | | | | | | | | | | 1 |
| 1 16 1 | 62.3 1947 | 1 1 | | 1956 | | 20 000 0 00 | 1986 | 1 | | 1933 |
| : 17 : | 62.6 1930 | !!! | 25.7 : | 1956 | ; | 44.3 | 1986 | 1 | -4.8 | |
| 1 18 1 | 66.2 1958 | ! ! | 21.7 | 1942 | 1 1 | 51.3 | 1986 : | 1 | -0.1 | A STATE OF THE PERSON NAMED IN COLUMN 2 IN |
| 1 19 : | THE RESERVE AND ADDRESS OF THE PARTY OF THE | ! ! | 23.4 | 1955 | ; ; | 45.0 | 1958 | 1 | 4.4 | THE RESIDENCE PARTY OF THE PART |
| : 20 : | | 1 1 | 24.7 | 1955 | ! ! | 42.7 | 1957 | ! | 0.4 | 1955 |
| 1 | | | | | | | | | | ; |
| : 21 : | 66.3 1982 | f | 24.8 | 1955 | 1 1 | 37.7 | 1941 | ! | 6.2 | 1984+; |
| : 22 : | AND REAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NAMED IN THE OWNER, THE PERSON NAMED IN THE | | 29.1 | | 1 1 | 42.9 | 1982 | } | 5.9 | 1975 |
| 1 23 1 | | | | 1960 | ; | 44.2 | 1 1986 1 | 1 | 5.6 | 1960 |
| : 24 : | | ! ! | 26.1 | 1960 | ; ; | 45.9 | 1986 ; | 1 | 4.9 | 1960 |
| 1 25 1 | | 1 1 | 26.8 | | 1 3 | 45.0 | 1981 | 1 | 2.0 | 1933 |
| 1 | | | | | | | | | | ! |
| 26 ; | 67.0 : 1950 | 1 1 | 22.6 | 1962 | 1 | 40.2 | 1976 | - | 3.0 | 1962 |
| 27 | | 1 1 | 13.5 | | 1 1 | 44.1 | 1940 | ; | -2.2 | |
| : 28 : | | 1 1 | 25.0 | | 1 | 45.0 | 1940 : | ! | 1.0 | |
| 1 29 | | ; ; | | 1960 | 1 1 | 40.8 | 1980 | 1 | -4.2 | 1960 : |
| ! | | | | | | | | | | 1 |
| 'Mnth! | ; 28/ | 1 1 | ! | 7/ | ! ! | | : 18/ : | ! | , | 9/ : |
| | | | 6.0 | 1933 | | 51.3 | 1986 | 1 | -30.0 | 1933 |
| | 00.0 1 1012 | - ' | 0.0 | | | | | | | |

⁺ Also in earlier years.

TABLE 4c

March 1929 - March 1988

Month: MARCH

| Day ! | High Year | Low | Year ! | High | | - 1 | Low Year |
|--------|---------------|--------|----------|----------|--------|-----|-------------|
| 1 | Max of | : Max | of : | : Min : | of : | 1 | Min of |
| ! ! | : Event: | 1 | Event! | 1 1 | Event: | ; | Event |
| : 1: | 66.7 1967 | : 29.0 | 1971 : | : 47.4 : | 1983 | ! | 12.9 : 1960 |
| : 2: | 62.6 1946 | : 30.0 | 1953 | 48.0 | 1983 | 1 | 2.9 : 1971 |
| 3 : | 63.0 : 1987 : | : 26.5 | 1966 | : 40.2 : | 1980 : | ! | 5.3 : 1952 |
| : 4: | 68.7 : 1987 : | : 26.2 | 1966 : | 42.0 | 1934 | ! | 1.8 : 1966 |
| ; 5; | 67.5 : 1972 : | : 30.9 | 1955 | 46.0 | 1987 : | ! | 5.2 : 1966 |
| t 1 | | | | | | | |
| : 6: | 68.5 1972 | 30.5 | 1964 | 43.5 | 1987 : | ; | 10.0 : 1964 |
| : 7: | 65.8 1986 | : 31.6 | 1964 : | 43.0 | 1975 : | 1 | 4.9 1964 |
| : 8 : | 67.7 : 1972 : | : 32.6 | 1964 : | 46.2 | 1954 | 1 | 6.9 : 1964 |
| 9 1 | 74.5 : 1972 : | : 33.4 | 1964 : | 43.0 | 1954 : | ! | 20.0 1930 |
| : 10 : | 73.2 : 1972 : | : 29.2 | 1962 : | : 45.4 : | 1967 : | 1 | 13.2 1964 |
| ! | | | | | | | |
| : 11 : | 67.3 1983 | : 29.0 | 1962 : | : 46.0 : | 1983 : | 1 | 13.6 1948 |
| 1 12 1 | 68.2 1934 | : 29.8 | 1962 : | : 45.2 : | 1967 : | 1 | 12.9 1956 |
| 1 13 : | 70.0 1934 | | 1962 : | : 46.0 : | 1983 : | 1 | 9.1 : 1962 |
| 14: | 70.0 1935 | | 1962 : | : 42.4 : | 1984 : | ; | 10.5 1964 |
| 15 : | 71.5 : 1934 : | | 1943 : | : 44.8 : | 1961 : | ! | 14.9 : 1962 |
| 1 | | | | | | | |
| : 16 ; | 69.0 1967 | : 36.4 | 1963 : | : 43.4 : | 1968 : | ; | 10.1 1963 |
| : 17 : | 67.6 : 1972+: | : 33.8 | | : 48.2 : | 1974 : | 1 | 18.2 1942 |
| : 18 : | 72.0 : 1972 : | : 30.7 | 1965 : | : 41.9 : | 1976 : | ; | 11.6 1965 |
| 1 19 1 | 70.7 : 1949 : | : 34.0 | 1943 : | : 48.0 : | 1975 : | ; | 10.0 1965 |
| 20 : | 70.7 1988 | : 30.6 | | : 46.0 : | 1934 : | ; | 17.0 1965 |
| 1 | | | | | | | |
| : 21 : | 72.6 1972 | 32.6 | 1952 : | : 46.2 : | 1988 : | - 1 | 14.1 : 1948 |
| : 22 : | 74.5 : 1972 : | : 31.7 | | : 47.1 : | 1978 : | ! | 16.9 1966 |
| : 23 : | 73.4 : 1961 : | | 1952 : | : 47.1 : | 1967 : | 1 | 18.9 1952 |
| : 24 : | 77.9 1956 | : 37.8 | 1929 | : 48.1 : | 1985 : | 1 | 18.0 1965 |
| : 25 : | 75.1 1956 | | 1942 : | | 1956 : | ! | 14.4 1965 |
| ! | | | | | | | |
| : 26 : | 77.7 : 1960 : | : 31.6 | 1975 : | : 46.1 : | 1971 : | ; | 18.8 : 1955 |
| : 27 : | 73.0 : 1953 : | | 1975 : | : 51.1 : | | - ! | 13.7 1931 |
| : 28 : | 76.7 1943 | | 1975 : | | 1934 : | ; | 18.2 1956 |
| : 29 : | | | : 1977 : | : 56.0 : | | 1 | 17.0 1975 |
| : 30 : | | ; 38.8 | | ; 50.0 ; | | 1 | 13.0 : 1977 |
| 1 | | | | | | | |
| 31 : | 74.6 1966 | : 40.9 | 1938 | : 51.2 : | 1956 ; | ; | 19.0 ; 1970 |
| 1 | | | | | | | |
| :Mnth: | : 24/ : | ; | : 4/: | ; ; | 29/ : | ; | : 4/ |
| | | | 1966 | | 1943 | 1 | 1.8 : 1966 |
| , , | 77.0 1 1000 1 | . 20.2 | . 1000 | | | | |

+Also in earlier years.

TABLE 4d
DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES

April 1929 - April 1988 Month: APRIL

| | *** 1 1 77 1 | I Tare I Vanne I | High Year | low : | Year |
|--------|---------------|------------------|-----------------|----------|--------|
| Day ! | | Low Year | Min of | Min | of : |
| 1 1 | Max of | | Event: | , 14111 | Event |
| 1 1 | ! Event! | Event! | ; 49.8 ; 1968 ; | 19.4 | |
| : 1 : | 73.5 1932 | 34.9 1936 | | 1 14.2 | |
| : 2: | 77.1 : 1943 : | 36.8 1945 | 45.8 1961 | 18.4 | |
| : 3 : | 76.0 : 1961 : | 35.4 1955 | 48.4 1985 | | |
| : 4: | 75.7 1959 | 38.9 1955 | 45.0 : 1959+: | | 1955 : |
| 1 5 1 | 82.2 : 1959 : | 38.0 1936 | : 52.0 : 1954 : | 15.3 | 1955 |
| ! | | | . 10 0 . 1000 | 04.0.1 | 1050 |
| : 6: | 81.2 1930 | 35.4 1929 | : 49.2 : 1960 : | 24.0 | |
| : 7: | | 37.3 1929 | : 50.4 : 1930 : | 21.0 | |
| : 8: | | : 41.0 : 1933 : | : 58.4 : 1930 : | 25.0 : | |
| 9 ! | 82.0 1960 | 37.0 1933+1 | 1 52.3 1965 | 22.0 | |
| 1 10 1 | 75.6 1971 | : 36.5 : 1974 : | 1 51.4 1 1942 1 | 19.0 | 1933 |
| ! | | | | | 1 |
| : 11 : | 80.0 1934 | 43.3 1953 | : 52.4 : 1985 : | : 21.2 : | |
| 12 : | 81.3 1936 | 38.9 1945 | 1 52.0 1934 | : 26.0 : | |
| : 13 : | 80.3 1988 | : 43.8 : 1968 : | 52.0 1934 | : 24.2 : | |
| : 14 : | 81.0 1962 | 44.3 1945 | : 54.0 : 1935 : | 25.0 | |
| : 15 : | 84.7 : 1985 : | : 46.9 : 1952 : | : 55.0 : 1979 : | : 24.8 : | 1945 |
| ! | | | | | 1 |
| 16 : | 84.2 1936 | : 42.5 : 1976 : | 61.2 1985 | | 1970+: |
| : 17 : | | 39.9 1941 | : 59.0 : 1985 : | 24.0 | |
| 1 18 : | | : 40.0 : 1972 : | : 59.1 : 1946 : | : 27.0 ; | |
| 19 : | | : 41.0 : 1933 : | : 56.8 : 1962 : | : 24.1 : | |
| : 20 : | | 39.8 : 1968 : | ; 53.4 ; 1980 ; | 24.3 | 1982 |
| 1 | | | | | ! |
| : 21 : | 83.0 : 1934 : | 36.2 1963 | : 56.0 : 1948 : | : 22.4 : | 1982 |
| 1 22 1 | | : 44.2 : 1963 : | : 55.4 : 1980 : | 25.9 | 1963 |
| 23 : | 85.0 1934 | : 42.8 : 1960 : | : 56.0 : 1934 : | 26.8 | 1968 |
| 24 | 84.5 1977 | : 43.6 : 1958 : | : 58.0 : 1930 : | : 27.4 : | 1950 |
| 25 | | : 43.7 : 1984 : | : 58.0 : 1959 : | 26.1 | 1950 |
| 1 20 1 | 011112010 | | | | ! |
| ; 26 ; | 82.6 1953 | : 40.8 : 1986 : | : 55.3 : 1981 : | : 27.0 ; | 1975 |
| 1 27 1 | | 35.9 1970 | : 52.9 : 1977 : | | 1966+1 |
| 1 28 1 | | : 41.9 : 1937 : | : 56.0 : 1987 : | : 28.4 : | |
| 1 29 1 | | 43.6 1970 | : 59.2 : 1987 : | | 1967+ |
| 30 | | 39.6 1967 | : 56.0 : 1934 : | : 28.0 : | |
| 1 30 1 | 00.0 1 1000 1 | , 00,0 , 100, | | | ! |
| Mnth | ; 19/; | : 1/: | : 16/: | 1 1 | 2/ : |
| | 85.4 1962 | | 61.2 1985 | | 1936 |
| 1 1 | 00.4 1302 | 1 04.0 1 1000 1 | , 01.0 , 1000 1 | | |

⁺Also in earlier years.

TABLE 4e

DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES

May 1928 - May 1988

Month: MAY

| 'Day | High ! | Year ! | ! | Low | ! | Year ! | ! | High | : | Year | ! | ! | Low | 1 | Year ! |
|--------|--------|--------|-----|-------|---|--------|-------|-------|---|-------|----------|---|------|-----|--------|
| , Day | | of ; | | Max | | of | : | Min | | of | | 1 | Min | 1 | of ; |
| , , | | Event | | PidA | | Event | ! | 11411 | | Event | | 1 | | ! | Event! |
| 1 1 | | | | 45.2 | | 1954 | : | 56.2 | | 1943 | | ; | 26.9 | ! | 1946 : |
| 1 2 : | | | | | | 1964 | | | | 1985 | | 1 | 28.1 | | |
| 3 ; | | | | | | 1950 | | | | 1985 | | ! | 27.6 | | |
| : 4 | | | | | | 1950 : | | | | 1962 | | ; | 31.0 | | |
| 5 ; | | | | | | 1978 : | | | | 1979 | | ! | 28.0 | | |
| ! | 01.0 | 1011 | | 1110 | · | 10,0 | _ | | _ | | | | | | ; |
| : 6 : | 90.7 : | 1947 : | 1 | 45.5 | ; | 1965 | ! | 59.0 | ! | 1934 | 1 3 | 1 | 25.4 | 1 | 1965 |
| ; 7 | | | | | | 1975 : | | | | 1934 | | ! | 27.2 | 1 | 1965 |
| : 8 : | | 1962 : | | | | 1930 : | | | | 1966 | | 1 | 30.2 | 1 | 1931 |
| : 9 | | | | | | 1933 : | ; | 62.4 | 1 | 1962 | 1 | 1 | 28.0 | - | 1930 : |
| : 10 : | | 1961 : | | | | 1983 | | 58.9 | | | 1 | 1 | 31.0 | 1 | 1948 |
| 1 | | | | | | | | | | | | | | | ; |
| : 11 : | 91.2 ; | 1960 : | ; | 44.2 | ; | 1983 | ; | 56.0 | 1 | 1934 | 1 | 1 | 32.0 | 1 | 1933 : |
| 1 12 | | 1960 : | | | | 1942 : | ; | 62.6 | 1 | 1960 | 1 | 1 | 32.4 | 1 | 1967 |
| : 13 | | 1959 : | | | | 1942 : | | | | 1984 | | 1 | 30.0 | ; | 1967 |
| : 14 | | 1936 : | | | | 1968 : | ! | 66.0 | ! | 1984 | 1 | 1 | 33.1 | 1 | 1967 |
| : 15 | | 1934 : | 1 | 50.0 | 1 | 1955 : | ; | 62.1 | 1 | 1987 | ! | ; | 32.4 | 1 | 1955 |
| ! | | | | | | | | | | | | | | | 1 |
| 1 16 | 89.7 : | 1948 : | 1 | 47.6 | ; | 1977 : | ; | 64.4 | 1 | 1987 | ! | ; | 30.0 | ! | 1955 |
| : 17 | | 1948 : | 1 | 48.0 | 1 | 1977 : | | | | 1934 | | 1 | 32.7 | | |
| : 18 | | 1932 : | ; | 44.6 | ; | 1977 : | ! | 63.0 | 1 | 1934 | 1 | 1 | | | 1971+: |
| : 19 | | 1958 : | 1 | 53.2 | ; | 1945 : | 1 | 59.4 | 1 | 1970 | 1 | 1 | 31.0 | | |
| : 20 | 92.4 ; | 1958 : | ! | 43.4 | 1 | 1975 : | ; | 62.9 | ; | 1954 | ! | 1 | 33.3 | ; | 1959 |
| 1 | | | | | | | | | | | | | | | - ! |
| ; 21 | 86.2 : | 1958 : | ; | 50.8 | 1 | 1962 : | | | | 1958 | | 1 | 34.5 | | |
| : 22 | 89.0 | 1934 : | | | | 1986 : | | | | 1963 | | 1 | 33.3 | | |
| : 23 | | 1934 : | | | | 1944 : | | | | 1934 | | ; | 30.2 | | |
| : 24 | | 1934 : | | | | 1939 : | | | | 1934 | | ! | 34.8 | | |
| : 25 | 91.5 | 1961 : | 1 | 54.8 | 1 | 1980 | ! | 60.6 | ; | 1964 | ! | 1 | 31.6 | 1 | 1975 |
| 1 | | | | | | | | | | | | | 04.6 | | 1000 |
| : 26 | | 1958 : | | | | 1929 | | | | 1988 | | - | | | 1975+1 |
| : 27 | | 1951 : | | | | 1954 : | | | | 1985 | | ! | 32.8 | | |
| : 28 | | 1958 : | | | | 1935 | ; | | | 1985 | | - | 32.4 | | |
| : 29 | | 1939 ! | | | | 1964 | ; | | | 1943 | | : | 37.1 | | |
| 30 | 92.6 | 1984 | ; | 52.0 | ; | 1937 | ; | 62.3 | ; | 1984 | <u>i</u> | 1 | 34.0 | i | 1979 |
| 1 | | 1000 | | P 4 - | _ | 1055 | 7 | 01.0 | - | 1000 | | - | 05.0 | 1 | 1000 |
| ; 31 | 92.7 | 1956 | - ; | 54.1 | 1 | 1955 | i | 61.0 | i | 1933 | <u>i</u> | 1 | 35.9 | i | 1978 |
| 1 | | 701: | | | | 0 / 1 | _ | | _ | 00 / | 1 | | | 1 | C / 1 |
| Mnth | | | | 00 M | 1 | | 1 | | 1 | , | | i | 05 4 | j . | 6/ 1 |
| 1 | 92.9 | 1958 | | 38.7 | 1 | 1964 | i | 68.7 | j | 1934 | i | i | 25.4 | i | 1900 |

⁺Also in earlier years.

TABLE 4f

June 1928 - June 1988

Month: JUNE

| ! Day | High : | Year | !!! | Low | ! | Year | t 1 | 1 | High | 1 | Year | 1 | 1 | Low | 1 | Year ! |
|-------|---------|-------|--------|------|---|-------|--------|---|------|---|-------|-----|---|---|---|--------|
| Day | - | of | | | 1 | | ! | ! | Min | | of | | 1 | Min | 1 | of ! |
| 1 | PidA ! | Event | | | | Event | 1 | 1 | | 1 | Event | : ! | 1 | | 1 | Event: |
| 1 1 | 91.8 | 1977 | | 50.8 | | | | 1 | 59.9 | ; | 1940 | | 1 | | | 1969 |
| 1 2 | | 1968 | | 51.9 | | | | ! | 61.7 | 1 | 1986 | 1 | 1 | 34.8 | 1 | 1954 |
| 1 3 | 93.2 ! | 1988 | | 55.6 | | | | ! | 63.3 | ! | 1968 | 1 | 1 | 34.9 | 1 | 1929 : |
| : 4 | 96.3 | 1988 | | 52.3 | | | | 1 | 66.2 | ! | 1988 | 1 | 1 | 39.4 | 1 | 1962 |
| 1 5 | | 1946 | | 60.0 | | | ! | ! | | ; | 1987 | ; | ; | 35.3 | 1 | 1937 |
| 1 | 00.0 | 10.10 | | | | | | | | | | | | | | 1 |
| ; 6 | 94.7 ; | 1959 | 1 1 | 51.8 | ! | 1932 | ; | 1 | 67.0 | 1 | 1950 | 1 | 1 | 36.9 | | |
| | 100.2 | | | 55.0 | 1 | 1932 | | ! | 64.2 | | 1985 | 1 | 1 | THE RESERVE AND ADDRESS OF THE PARTY OF THE | | 1962+ |
| : 8 | | 1961 | | 55.9 | ! | 1941 | | | 64.3 | | | 1 | ! | 38.5 | | |
| : 9 | 101.0 | | | 56.8 | ; | 1941 | 1 | ! | 65.0 | 1 | 1956 | 1 | ! | 36.0 | | |
| : 10 | | 1961+ | | 58.8 | ! | 1945 | ! | 1 | 65.4 | 1 | 1946 | 1 | 1 | 40.2 | 1 | 1947 : |
| 1 | | | | | | | | | | | | | | | | 1 |
| : 11 | 96.1 ; | 1961 | !!! | 48.7 | ! | 1947 | 1 | ! | 64.4 | | 1955 | | ! | 40.0 | | |
| : 12 | | 1979 | | 62.8 | | | | 1 | | | 1953 | | 1 | 40.9 | | |
| : 13 | | 1979 | ; ; | 62.0 | | | | 1 | | | 1959 | | 1 | 39.9 | | |
| : 14 | 100.5 | 1974 | !!! | 60.1 | ! | 1945 | | | | | 1959 | | 1 | 39.3 | | |
| | 101.5 | | ! ! | 61.3 | ! | 1957 | } | 1 | 70.8 | 1 | 1974 | ! | ; | 38.8 | 1 | 1945 |
| ; | | | | | | | | | | | | | | | | 1 |
| : 16 | | 1940 | | 62.3 | | | | | | | 1974 | | ! | 39.8 | | |
| : 17 | 103.3 | 1940 | | 50.0 | | | | ! | | | 1933 | | ; | 37.4 | | |
| : 18 | 101.8 | 1940 | !!! | 53.5 | | | | ; | | | 1986 | | 1 | 36.8 | | |
| | 101.0 | | ! ! | | | 1975 | ! | ! | | | 1974 | | 1 | 40.3 | | |
| : 20 | 101.1 : | 1936 | 1 1 | 66.2 | 1 | 1975 | ; | ; | 72.7 | ; | 1940 | ! | ! | 41.0 | ; | 1929 |
| 1 | | | | | | | | | | _ | | | | | | |
| | 103.5 | | | 58.0 | | | | ; | | | 1988 | | ; | 37.5 | | |
| : 22 | 101.0 | 1961 | | 59.8 | | | | 1 | 73.6 | | 1937 | | ! | 42.0 | | |
| : 23 | 100.0 | 1960+ | ; | 71.2 | 1 | | | 1 | | | 1988 | | 1 | 44.4 | | |
| : 24 | 102.0 | 1988 | !!! | 63.8 | | 1952 | | ! | | | 1959 | | 1 | | | 1976 : |
| : 25 | 101.0 | 1974 | 1 1 | 62.4 | ; | 1969 | ; | ! | 75.3 | 1 | 1988 | 1 | 1 | 39.8 | ; | 1953+1 |
| 1 | | | | | | | | | | | | | | | | 1 |
| 26 | 102.5 | 1970 | | 62.9 | | | | 1 | 75.4 | | 1981 | 1 | 1 | 42.1 | | |
| : 27 | 101.9 | 1958 | | 60.6 | | | | ! | 75.3 | | 1981 | 1 | 1 | 43.4 | | |
| | | 1961 | | 65.0 | | | | ; | | | 1986 | 1 | 1 | 40.3 | | |
| | 103.5 | | | 63.9 | | | | 1 | | | 1935 | 1 | 1 | 42.2 | - | |
| : 30 | 99.6 | 1973 | 1 1 | 72.8 | 1 | 1959 | 1 | 1 | 71.8 | 1 | 1953 | 1 | 1 | 39.9 | ; | 1968 ; |
| 1 | | | | | | | | | | _ | | | | | | |
| Mnth | | 29/ | 121/ 1 | | 1 | 11/ | } | | | | | | , | | 1 | 7/ : |
| 1 | 103.5 | 1979 | 11961: | 48.7 | ; | 1947 | i v | 1 | 75.4 | 1 | 1981 | ! | 1 | 34.8 | 1 | 1962+1 |
| | | | | | | | | | | | | | | | | |

⁺Also in earlier years.

TABLE 4g

July 1929 - July 1988

Month: JULY

| Day | High : | Year : | ! | Low | : | Year ! | ; | High | 1 | Year : | ! | Low | Year ! |
|--------|---------|--------|-----|------|---|--------|-----|------|---|--------|-----|-------|--------|
| 1 1 | Max | | | | | of : | | Min | | of ! | ; | Min | of |
| 1 1 | | Event! | | | | Event: | 1 | | | Event: | - } | | Event: |
| : 1: | 101.0 : | | 1 | | | 1928 : | ; | 73.1 | | 1981 : | 1 | 40.0 | 1968 |
| | 100.3 | | | | | 1938 : | | | | 1948 : | 1 | 43.3 | 1 1968 |
| | 100.9 | | | | | 1983 ; | 1 | | | 1988 : | ; | 48.9 | 1966 |
| | 101.8 : | | | | | 1938 | ! | | | 1988 ; | 1 | 46.7 | 1938 |
| | 103.6 | | | | | 1982 : | : | 71.8 | 1 | 1988 : | ; | 43.8 | 1932 |
| 1 | | | | | | | | | | | | | - 1 |
| 1 6 1 | 101.7 : | 1973 : | 1 | 74.0 | ! | 1938+1 | 1 | 74.0 | 1 | 1981+: | 1 | | 1938 |
| | 101.5 | | | | | 1955 : | ! | 73.4 | 1 | 1985 : | 1 | 41.2 | 1928 |
| | 100.5 ; | | | | | 1937 : | 1 | 74.0 | 1 | 1963 : | 1 | 45.1 | 1955 |
| | 102.1 : | | 1 | 77.6 | ; | 1946 : | ! | 72.1 | 1 | 1954 : | 1 | | 1959 |
| | 103.5 ; | | ! | 70.6 | 1 | 1983 | ! | 79.0 | 1 | 1956 : | - ! | 50.2 | 1946 |
| 1 | | | | | | | | | | | | | 1 |
| : 11 : | 102.5 | 1976 : | ; | 71.8 | ! | 1936 : | 1 | 76.0 | 1 | 1981 : | 1 | | 1983 |
| | 103.0 : | | 1 1 | 75.0 | 1 | 1936 : | | | | 1980 : | 1 1 | | 1951 |
| | 102.3 : | | | | | 1962 : | ! | 69.3 | 1 | 1964 : | 1 | | 1943 |
| | 102.9 | | 1 | 78.3 | ! | 1962 : | ! | 75.6 | 1 | 1931 | ! | | 1932 |
| | 102.7 : | | ! | 75.1 | ! | 1983 : | ! | 75.0 | 1 | 1931 : | ; | 52.4 | 1962 |
| 1 | | | | | | | | | | | | | ! |
| : 16 : | 103.2 : | 1960 : | 1 | 82.7 | ! | 1940 : | ! | 75.1 | 1 | 1968 : | 1 | 52.0 | 1956 |
| | 103.1 : | | 1 | 77.7 | 1 | 1986 : | 1 | | | 1966 : | 1 | | 1943 |
| : 18 : | 103.5 | 1960 : | | | | 1987 | ; | 73.0 | 1 | 1977 : | ; | | 1939 |
| 19 1 | 104.1 : | 1960 : | | | | 1973 : | 1 | | | 1984+: | 1 | | 1958 |
| : 20 : | 104.6 ; | 1960 : | ; | 79.7 | 1 | 1951 | ; | 72.8 | 1 | 1960 | - 1 | 50.2 | 1932 |
| ! | | | | | | | | | | | | | ! |
| : 21 : | 105.7 | 1931 : | | | | 1972+1 | | | | 1966 : | 1 | | 1932 |
| : 22 : | 103.1 | 1931 : | | | | 1973 : | | | | 1982 | ! | | 1954 |
| | 103.2 | | ; | 80.0 | 1 | 1986 | - 1 | 71.9 | ; | 1963 ; | 1 | | 1954 |
| | 105.4 | | | | | 1977 : | ; | | | 1953 : | - ! | | 1954 |
| : 25 : | 103.0 : | 1933 | ; | 69.7 | 1 | 1941 : | ; | 77.4 | 1 | 1953 | 1 | 51.4 | 1964 |
| 1 | | | | | | | | | _ | | | | - : |
| | 106.6 | | | | | 1986 : | | | | 1984 | 1 | | 1932 |
| | 103.9 | | | | | 1941 : | - ! | | | 1960 : | 1 | | 1963 |
| | 106.4 | | | | | 1948 : | - ; | | | 1931 : | ; | | 1929 |
| | 103.5 | | | | | 1950 : | | | | 1976 | ; | | 1948 |
| 30 ; | 103.0 : | 1934 : | ! | 77.0 | ; | 1931 : | ; | 74.4 | 1 | 1935 | ; | 48.3 | 1950 |
| 1 | | | | | - | | | | | 1050 | | 4 7 0 | 1 1050 |
| 31 : | 100.9 : | 1938 : | ! | 77.6 | 1 | 1975 : | ; | 72.9 | ; | 1959 | 1 | 45.0 | 1950 |
| 1 | | | | | _ | | | | _ | 10. | | | |
| Mnth | ; | | | | | | | | 1 | | ; | | 1/ 1 |
| 1 1 | 106.6 | 1960 : | - ! | 65.2 | 1 | 1982 | ; | 79.0 | ; | 1956 : | - ; | 40.0 | 1968 |

⁺Also in earlier years.

TABLE 4h

August 1928 - August 1988 Month: AUGUST

| Max of Max of Min of Min of Min of Event | 1928 1928 1944 1928 1950 1928 1976 |
|--|---|
| | Event 1932 1928 1928 1944 1928 1950 1928 1976 |
| 1 : 101.6 : 1979 : 78.5 : 1965 : | 1932 1928 1928 1944 1928 1950 1928 1976 |
| 1 | 1928 1928 1944 1928 1950 1928 1976 |
| 3 101.8 1960 | 1928 1944 1928 1950 1928 1976 |
| 4 104.0 1979 75.9 1951 70.1 1983+ 47.7 5 102.9 1979 78.3 1962 73.4 1946 50.4 6 99.6 1983+ 74.3 1939 75.1 1975 48.3 7 99.1 1983+ 79.2 1939 75.1 1983 49.0 8 99.6 1936 81.7 1938 | 1944 1928 1950 1928 1976 |
| 1 | 1928 1950 1928 1976 |
| 6 | 1950 1928 1976 |
| 7 99.1 1983+ | 1928 1976 |
| 7 99.1 1983+ | 1928 1976 |
| 8 99.6 1936 81.7 1938 73.4 1983+ 48.8 9 103.1 1940 77.4 1985+ 70.8 1932 50.6 | 1976 |
| 9 103.1 1940 | |
| 9 103.1 1940 | 1931 |
| 10 101.0 1935 75.8 1947 72.1 1983 50.2 | |
| 11 102.0 1972 | 1939 |
| 12 101.9 1940 | |
| 12 101.9 1940 | 1932 |
| 13 102.1 1937 74.0 1930 70.1 1970 50.2 14 99.9 1960 68.4 1978 70.6 1963 47.1 15 101.1 1962 68.4 1968 72.2 1943 49.0 | 1935 |
| 14 99.9 1960 68.4 1978 70.6 1963 47.1 15 101.1 1962 68.4 1968 72.2 1943 49.0 | 1932 |
| 15 101.1 1962 | |
| 16 98.5 1986 | 1938 |
| 17 100.0 1934 | |
| 17 100.0 1934 | |
| 18: 98.7: 1932: : 69.6: 1968: : 72.0: 1934: : 44.9: 19: 99.2: 1961: : 65.7: 1980: : 71.8: 1932: : 47.0: 20: 102.8: 1960: : 71.4: 1964: : 73.6: 1961: : 40.0: 21: 102.3: 1960: : 70.0: 1968+ : 74.3: 1960: : 43.0: | 1968 |
| 19 99.2 1961 | 1954 |
| 20 102.8 1960 | 1978 |
| 21 : 102.3 : 1960 : : 70.0 : 1968+: : 74.3 : 1960 : : 43.0 : | 1928 |
| 21 102.0 1 1000 1 1000 1 | |
| DI I LOUIS AND A L | 1964 |
| 22 97.6 1937 59.7 1968 72.7 1937 45.0 | 1933 |
| 23 98.7 1967 69.6 1968 68.7 1950 44.0 | |
| 24 98.9 1967 75.3 1951 70.0 1955 39.7 | |
| 25 99.6 1985 71.0 1933 69.6 1981 43.7 | |
| 7 20 1 39.0 1 1300 1 171(0 1 1300 1 1 00.0 1 1300 1 | |
| 26 : 100.5 : 1985 : : 69.6 : 1977 : : 73.7 : 1981 : : 43.0 : | 1933 |
| 27 98.7 1937 | |
| 28 96.6 1961+ 74.6 1977 70.0 1984 42.2 | |
| 29 99.4 1948 68.2 1964 68.4 1981 36.8 | |
| 30 : 100.0 : 1954 : 61.2 : 1932 : 68.3 : 1983 : 38.3 | |
| 30 100.0 1304 01.2 1332 00.3 1303 | 1001 |
| 31 : 97.5 : 1950 : : 69.3 : 1932 : : 67.3 : 1983+: : 36.6 : | 1965 |
| 31 : 97.5 : 1950 : : 69.3 : 1932 : : 67.3 : 1983+: : 36.6 : | 1000 |
| ! Mnth! 4/ | |
| Transcar, | 31/ |
| 104.0 1979 59.7 1968 75.1 1983+ 36.6 | 31/ |

⁺Also in earlier years.

TABLE 4i

September 1928 - September 1988

Month: SEPTEMBER

| Day ! | High ! Year | ; ; | Low ; | Year | 1 | High | 1 | Year | • | ! | Low | Year ! |
|--------|--------------|------|--------|---------|-----|------|---|--------|---|---|------|----------|
| 1 1 | Max of | 1 ! | Max ! | of | : : | Min | 1 | of ! | | 1 | Min | of ! |
| ! ! | Even | t: : | ; | Event | 1 | | ! | Event! | | 1 | | Event: |
| 1 1 : | 96.3 1985 | 1 1 | 57.3 | 1973 | | 71.0 | ! | 1929 | | 1 | 43.0 | 1932 |
| 1 2 : | 97.6 : 1947 | 1 1 | | 1973 | | 68.0 | | 1945 : | | 1 | 40.9 | 1964 |
| 1 3 1 | 96.0 1950 | | 65.2 : | | ! | 67.1 | 1 | 1978 : | | 1 | 38.6 | 1961 |
| : 4: | 98.0 : 1950 | | 68.9 : | 1929 | ! | 71.3 | 1 | 1978 : | | 1 | 41.1 | 1964 |
| 1 5 1 | 96.0 1967 | | 54.9 : | | | | | 1978 : | | 1 | 40.6 | 1956 |
| 1 | | | | | | | | | | | | ! |
| : 6: | 96.7 : 1979 | 1 1 | | | | 70.0 | | 1933 ! | | 1 | | 1943 |
| : 7: | 98.6 1979 | ; ; | 59.8 | 1928 | ! | 67.2 | 1 | 1986 : | | 1 | 44.3 | 1948 |
| : 8: | 100.0 : 1979 | 1 1 | 57.2 | 1973 | ! ! | 69.0 | 1 | 1952 : | | 1 | 37.5 | 1962 |
| : 9: | 94.2 : 1974 | 1 1 | 66.6 | 1928 | | 71.6 | 1 | 1979 : | | 1 | 33.8 | |
| : 10 : | 93.8 1958 | ; ; | 64.2 | 1986 | 1 1 | 65.6 | 1 | 1972 : | | 1 | 38.4 | 1932 |
| 1 | | | | | | | | | | | | ; |
| : 11 : | 93.9 : 1958 | ; ; | 58.8 | 1950 | 1 1 | 69.9 | 1 | 1959 : | | 1 | 38.2 | 1947 |
| : 12 : | 95.4 1963 | 1 1 | 62.6 | 1988 | ! ! | 69.0 | ; | 1984 : | | 1 | 36.0 | 1 1928 1 |
| : 13 : | 93.3 1948 | !!! | 55.6 | 1988 | ! ! | 66.1 | 1 | 1968 | | 1 | 32.2 | 1928 |
| : 14 : | 96.0 : 1948 | 1 1 | 60.9 | 1982 | ! | 63.1 | 1 | 1955 : | | 1 | 35.0 | 1928 |
| 1 15 : | 92.3 1943 | ; ; | 62.0 | 1933 | 1 | 63.7 | 1 | 1948 : | | 1 | 33.3 | 1936 |
| ! | | | | | | | | | | | | 1 |
| : 16 : | 91.0 1943 | ; ; | 54.9 : | 1965 | 1 1 | 64.0 | 1 | 1984 : | | 1 | 33.4 | |
| : 17 : | 93.2 : 1937 | ; ; | 43.4 | 1965 | ! ! | 62.2 | ! | 1943 : | | , | | 1965 |
| 1 18 : | 94.0 : 1937 | 1 1 | 51.5 | 1978 | ! ! | 64.0 | 1 | 1930 | | 1 | 27.0 | 1 1965 |
| : 19 : | 96.7 1956 | ; ; | 54.5 | 1978 | 1 1 | 65.0 | 1 | 1984 : | | ; | 31.3 | 1964 |
| : 20 : | 91.0 1933 | 1 1 | 57.9 : | 1941 | 1 1 | 62.3 | 1 | 1929 | | 1 | 29.7 | 1 1965 |
| 1 | | | | | | | | | | | | ! |
| : 21 : | 89.5 1944 | 1 1 | 52.2 : | 1961 | ; ; | 58.2 | | 1929 ; | | 1 | | 1968 |
| : 22 : | 91.1 : 1954 | !!! | 57.3 : | 1961 | : : | 62.0 | 1 | 1934 : | | 1 | 32.4 | 1968 |
| : 23 : | 91.0 : 1966 | 1 1 | 54.8 : | | ! ! | 62.4 | | 1979 : | | 1 | | 1968 |
| : 24 : | 89.0 1979 | 1 1 | 41.0 : | 10 00 0 | 1 1 | 60.9 | | 1966 | | 1 | | 1961 |
| 25 : | 89.5 1979 | 1 1 | 47.0 : | 1934 | ! ! | 64.3 | 1 | 1949 : | | 1 | 29.6 | 1970 |
| 1 | | | | | | | | | | | | 1 |
| : 26 : | 88.7 1956 | | | | | | | 1949 : | | 1 | | 1970 : |
| : 27 : | 90.5 : 1969 | | | 1982 | | 58.7 | | 1957 : | | 1 | | 1934 |
| 1 28 1 | 90.0 1957 | | | 1982+ | | | ; | 1981 : | | 1 | | 1936 |
| 1 29 1 | 90.6 1969 | | 46.7 : | 1982 | | 62.2 | | | | ; | | 1986+1 |
| : 30 : | 89.8 1957 | 1 1 | 49.3 | 1950 | ! ! | 58.4 | 1 | 1938 : | | ; | 29.5 | 1 1954 1 |
| 1 | | | | | | | | | | | | 1 |
| !Mnth! | 1 8/ | | | 24/ | | | 1 | 5/ 1 | | 1 | | 18/ |
| 1 1 | 100.0 : 1979 | 1 1 | 41.0 | 1934 | ; ; | 73.1 | 1 | 1978 | | ! | 27.0 | 1965 |

⁺ Also in earlier years.

TABLE 4j
DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES
October 1928 - October 1988
Month: OCTOBER

| Max | Event 1957 1979 1963 1947 1975 1979 1979+ 1963 1955 1958 19 | | Max 45.1 51.7 56.2 53.4 44.7 46.3 49.6 44.9 41.2 49.3 49.7 46.9 47.6 45.1 | | Event: 1971 : 1971 : 1969 : 1951 : 1941 : 1948 : 1949 : 1960 : 1949 : 1960 : 1966 : 1966 : 1966 : | | Min 65.5 58.5 58.0 56.2 58.2 61.0 57.8 57.1 57.0 63.3 | E E E E E E E E E E E E E E E E E E E | of vent 953 929 948 963 947 966 962 968 | | | | 1959 1959 1928 1932 1955 1955 1959 1968 1932 |
|--|--|---|---|--|--|---|--|---------------------------------------|---|---------------|--|---|--|
| 87.7 87.5 88.6 85.8 85.1 85.5 84.6 84.4 84.7 84.7 84.7 84.7 84.7 84.7 84.7 84.7 87.5 87 | Event 1957 1979 1963 1947 1975 1979 1979+ 1963 1955 1958 19 | | 45.1 51.7 56.2 53.4 44.7 46.3 49.6 44.9 41.2 49.3 49.7 46.9 47.6 45.1 | | Event: 1971 : 1971 : 1969 : 1951 : 1941 : 1948 : 1949 : 1960 : 1949 : 1960 : 1966 : 1966 : 1966 : | | 58.5 58.0 56.2 58.2 61.0 57.8 57.1 57.0 63.3 56.0 58.3 | | 953 929 948 948 963 947 975 960 983 962 944 968 | 1 | 31.1 31.0 33.0 29.5 25.7 30.9 29.4 28.9 28.0 | | 1950 1959 1959 1928 1932 1955 1955 1968 1932 1946 1986 |
| 87.7 87.5 88.6 88.6 85.8 85.1 85.5 84.6 84.4 84.7 84.1 84.7 84.1 83.1 83.1 83.4 79.2 | 1957 1979 1963 1947 1975 1979 1979+ 1963 1955 1958 195 | | 51.7 56.2 53.4 44.7 46.3 49.6 44.9 41.2 49.3 49.7 46.9 47.6 45.1 | | 1971 1969 1951 1944 1949 1947 1966 1966 1969 19 | | 58.5 58.0 56.2 58.2 61.0 57.8 57.1 57.0 63.3 56.0 58.3 | | 929 948 963 967 975 960 983 962 944 968 | 1 | 31.1 31.0 33.0 29.5 25.7 30.9 29.4 28.9 28.0 | | 1959 1959 1928 1932 1955 1955 1959 1968 1932 |
| 87.5 88.6 85.8 85.1 85.5 87.5 84.6 84.4 84.7 84.1 83.1 84.7 81.1 83.4 79.2 | 1979 1963 1963 1947 1975 1979 1979+ 1963 1955 1958 195 | | 51.7 56.2 53.4 44.7 46.3 49.6 44.9 41.2 49.3 49.7 46.9 47.6 45.1 | | 1971 1969 1951 1944 1949 1947 1966 1966 1969 19 | | 58.0 56.2 58.2 61.0 57.8 57.1 57.0 63.3 56.0 58.3 | | 948 963 947 975 975 960 983 962 944 968 | 1 | 31.0 33.0 29.5 25.7 30.9 29.4 28.9 28.0 | 1 | 1959 1928 1932 1955 1955 1959 1968 1932 1946 1986 |
| 88.6 ; 85.8 ; 85.1 ; 85.5 ; 87.5 ; 84.6 ; 84.7 ; 84.1 ; 83.1 ; 84.7 ; 81.1 ; 83.4 ; | 1963 1963 1947 1975 1979 1979+ 1963 1955 1958 195 | | 56.2 53.4 44.7 46.3 49.6 44.9 41.2 49.3 49.7 46.9 47.6 45.1 | | 1969 ; 1951 ; 1941 ; 1946 ; 1949 ; 1960 ; 1949 ; 1969 ; 1966 ; 1969 ; | | 56.2 58.2 61.0 57.8 57.1 57.0 63.3 56.0 58.3 | | 963 947 975 960 954 962 962 944 968 | 1 | 33.0 29.5 25.7 30.9 29.4 28.9 28.0 26.8 28.2 | 1 | 1928 1932 1955 1955 1959 1968 1932 1946 1986 |
| 85.8 85.1 85.5 87.5 84.6 84.4 84.7 84.1 83.1 83.1 83.4 79.2 | 1963 1947 1975 1979 1979+ | | 53.4 44.7 46.3 49.6 44.9 41.2 49.3 49.7 46.9 47.6 45.1 | | 1951 : 1941 : 1946 : 1949 : 1960 : 1949 : 1966 : 1966 : 1969 : | | 58.2 61.0 57.8 57.1 57.0 63.3 56.0 58.3 | | 947 975 960 954 962 944 968 | 1 | 29.5 25.7 30.9 29.4 28.9 28.0 26.8 28.2 | 1 | 1932 1955 1955 1959 1968 1932 1946 1986 |
| 85.1 85.5 87.5 84.6 84.4 84.7 83.1 83.1 83.4 79.2 | 1947 : 1975 : 1979 : 1979+: 1963 : 1955 : 1980 : 1958 : 1958 : 1958 : 1958 : | | 44.7 46.3 49.6 44.9 41.2 49.3 49.7 46.9 47.6 45.1 | 1 | 1941 : 1946 : 1949 : 1949 : 1960 : 1949 : 1947 : 1969 : 1966 : 1969 : | | 58.2 61.0 57.8 57.1 57.0 63.3 56.0 58.3 | | 947 975 960 954 962 944 968 | 1 | 25.7 30.9 29.4 28.9 28.0 26.8 28.2 | 1 | 1955 1955 1959 1968 1932 1946 1986 |
| 85.5 ; 87.5 ; 84.6 ; 84.4 ; 84.7 ; 84.1 ; 83.1 ; 84.7 ; 81.1 ; 83.4 ; | 1975 1979 1979+ 1963 1955 1980 1958 1958 1958 1958 | | 49.6 44.9 41.2 49.3 49.7 46.9 47.6 45.1 | 1 | 1949 1949 1960 1949 1947 1969 1966 1969 | 1 | 57.8 57.1 57.0 63.3 56.0 58.3 | | 960 954 983 962 944 968 | 1 | 30.9 29.4 28.9 28.0 26.8 28.2 | 1 | 1955 1959 1968 1932 1946 1986 |
| 87.5 84.6 84.4 84.7 84.1 83.1 84.7 81.1 83.4 79.2 | 1979 1979+ 1963 1955 1980 1958 1958 1958 1958 | | 49.6 44.9 41.2 49.3 49.7 46.9 47.6 45.1 | 1 | 1949 1949 1960 1949 1947 1969 1966 1969 | 1 | 57.8 57.1 57.0 63.3 56.0 58.3 | | 960 954 983 962 944 968 | 1 | 30.9 29.4 28.9 28.0 26.8 28.2 | 1 | 1955 1959 1968 1932 1946 1986 |
| 84.6 84.4 84.7 84.1 83.1 84.7 81.1 83.4 79.2 | 1979+; 1963 ; 1955 ; 1980 ; 1958 ; 1958 ; 1958 ; | 1 | 44.9 41.2 49.3 49.7 46.9 47.6 45.1 | 1 1 1 1 1 1 1 1 1 | 1949 1960 1949 1947 1969 1966 1969 | 1 | 57.1 57.0 63.3 56.0 58.3 | | 954 983 962 944 968 | 1 | 29.4 28.9 28.0 26.8 28.2 | 1 | 1959 1968 1932 1946 1986 |
| 84.6 84.4 84.7 84.1 83.1 84.7 81.1 83.4 79.2 | 1979+; 1963 ; 1955 ; 1980 ; 1958 ; 1958 ; 1958 ; | 1 1 3 1 1 1 1 1 1 | 41.2 49.3 49.7 46.9 47.6 45.1 | 1 1 1 1 1 1 1 1 | 1960 : 1949 : 1947 : 1969 : 1966 : 1969 : | 1 | 57.0 63.3 56.0 58.3 | 1 1 1 | 983 962 944 968 | 1 | 28.9 28.0 26.8 28.2 | 1 1 | 1968 1932 1946 1986 |
| 84.4 : 84.7 : 84.1 : 83.1 : 84.7 : 81.1 : 83.4 : 79.2 : | 1963 1955 1980 1958 1958 1958 | 1 | 49.3 49.7 46.9 47.6 45.1 | 1 1 1 1 1 1 1 | 1949 : 1947 : 1969 : 1966 : 1969 : | 1 1 | 63.3 56.0 58.3 | 1 1 | 962 944 968 | 1 3 | 28.0 26.8 28.2 | | 1932 1946 1986 |
| 84.7 ; 84.1 ; 83.1 ; 84.7 ; 81.1 ; 83.4 ; | 1955 ; 1980 ; 1958 ; 1958 ; 1958 ; | 1 | 49.3 49.7 46.9 47.6 45.1 | 1 1 1 1 1 1 1 | 1949 : 1947 : 1969 : 1966 : 1969 : | 1 | 56.0 58.3 | 1 1 | 944 968 | | 26.8 28.2 | | 1946 1986 |
| 84.1 : 83.1 : 84.7 : 81.1 : 83.4 : | 1980 : 1958 : 1958 : 1958 : 1958 : | 1 | 49.7 46.9 47.6 45.1 | 1 1 1 1 1 1 1 | 1947 1969 1966 1969 | - 1 | 58.3 | : 1 | 968 ! | | 28.2 | ! | 1986 |
| 83.1 : 84.7 : 81.1 : 83.4 : | 1958 1958 1958 1958 | ; | 46.9 47.6 45.1 | 1 1 1 | 1969 : 1966 : 1969 : | - 1 | 58.3 | : 1 | 968 ! | | 28.2 | ! | 1986 |
| 83.1 : 84.7 : 81.1 : 83.4 : | 1958 1958 1958 1958 | ; | 46.9 47.6 45.1 | 1 1 1 | 1969 : 1966 : 1969 : | - 1 | 58.3 | : 1 | 968 ! | | | | |
| 84.7 : 81.1 : 83.4 : | 1958 1958 1958 | 1 | 47.6 45.1 | 1 1 | 1966 ; 1969 ; | 1 | 63.4 | : 1 | | 1 | 31.0 | - | |
| 81.1 : 83.4 : | 1958 ; 1958 ; | 1 | 45.1 | 1 | 1969 : | | | | 962 | | | | 1986 |
| 79.2 | 1958 : | | | | | 1 | 56.0 | : 1 | 938 | ! | 27.8 | 1 | 1954 |
| 79.2 : | | | | | 1980 : | | 54.7 | | | 1 | 26.3 | 1 | 1966 |
| | 1950 ' | | | - | | | | | | | | | |
| | TOOU | ; | 42.0 | 1 | 1980 : | 1 | 53.2 | : 1 | 972 ! | 1 | 26.8 | 1 | 1930 |
| 82.6 | 1958 : | | | | 1938 : | ! | 54.0 | : 1 | 943 : | 1 | 22.8 | 1 | 1964 |
| | 1958 : | ! | 40.8 | ! | 1984+; | 1 | 49.6 | 1 | 958 | 1 | 23.4 | ; | 1964 |
| | 1958 : | | | | 1949 : | ! | 51.0 | : 1 | 955+; | 1 | 25.8 | 1 | 1976 |
| | 1950 ; | | | | 1949 : | 1 | 55.2 | : 1 | 961 : | 1 | 24.3 | 1 | 1932 |
| | | | | | | | | | | | | | |
| 78.6 : | 1967 : | ; | 42.3 | 1 | 1949 : | ! | 48.7 | : 1 | 955 : | , | 26.8 | 1 | 1958 |
| | | | | | | ! | | | | 1 | 23.9 | 1 | 1966 |
| | | | | | | ! | | | | ! | 23.8 | 1 | 1935 |
| | | | | | | 1 | | | | 1 | | | |
| | | | | | | ! | | | | ; | The state of the s | _ | |
| 10.2 | 1010 | | 1110 | - | | | | | | | Water State of the Parket | | |
| 79.5 ! | 1977 ! | ! | 43.5 | ! | 1970 ! | ! | 52.8 | : 1 | 950 : | 1 | 27.9 | ! | 1970 |
| | | : | | | | ! | 51.9 | ! 1 | 945 | 1 | | | |
| | | ! | | | | ! | | | | ! | | | |
| | | 1 | | | | ! | | | | 1 | | | |
| | | | | | | | | | | ! | | | |
| 11.01 | 1000 | | 01.0 | - | 2012 | | 0010 | | | | | - | |
| 73.0 ! | 1988 ! | 1 | 35.1 | ! | 1971 : | ! | 48.0 | ; 1 | 954 ! | ! | 17.5 | 1 | 1935 |
| 10.01 | 1000 | | 30.1 | 1 | 2012 | | 10.0 | | | | | | |
| ī | 3/! | 1 | | 1 | 29/ ! | ! | | 1 | 30/ ! | ! | | 1 | 30/ |
| 1 | | 1 | 29 5 | 1 | | , | 65.9 | | | : | 16.1 | 1 | |
| | 77.0 : 77.1 : 77.9 : 78.2 : 78.2 : 79.5 : 76.3 : 75.4 : 79.2 : 77.3 : 73.0 : 1 | 78.6 : 1967 : 77.0 : 1973 : 77.1 : 1952 : 77.9 : 1959 : 78.2 : 1979 : 79.5 : 1977 : 76.3 : 1977 : 75.4 : 1937 : 79.2 : 1964 : 77.3 : 1950 : 73.0 : 1988 : 88.6 : 1963 : | 77.0 : 1973 : : : : : : : : : : : : : : : : : : : | 77.0 : 1973 : : 45.3 77.1 : 1952 : : 42.3 77.9 : 1959 : : 39.0 78.2 : 1979 : : 41.2 79.5 : 1977 : : 43.5 76.3 : 1977 : : 43.4 75.4 : 1937 : : 32.6 79.2 : 1964 : : 29.5 77.3 : 1950 : : 34.9 73.0 : 1988 : : 35.1 | 77.0 : 1973 : | 77.0 : 1973 : | 77.0 : 1973 : | 77.0 : 1973 : | 77.0 : 1973 : | 77.0 : 1973 : | 77.0 : 1973 : | 77.0 : 1973 : | 77.0 : 1973 : |

⁺ Also in earlier years.

TABLE 4k

November 1928 - November 1988 Month: NOVEMBER

| Day | Max of Event | Low | Year : | High : Y | | | Year |
|--------|--|--|---|------------|---|--|---------------------------------------|
| | : Event: | | OT 1 | 1 LITTI | of : | Min | of : |
| | | 1 1 | Event | | Event! | ! | Event |
| | 71.8 1988+ | 36.9 | 1971 : | | 987 : | 15.8 | 1971+ |
| | 72.7 1965 | | 1936 | : 50.1 : 1 | 988 : | : 13.8 | 1956 |
| 1 3 1 | 70.7 1965 | | 1936 : | | .988 ; | 1 5.5 | 1936 |
| : 4: | 70.2 1983 | | 1935 | : 54.4 : 1 | | 15.0 | 1936 |
| : 5 : | | : 37.0 : | | : 47.4 : 1 | 945 | 18.0 | 1935 |
| ! | | | | | | | |
| : 6: | 74.2 1931 | : 32.1 : | 1947 | | .966 | 15.6 | 1947 |
| : 7: | | : 35.5 : | 1945 | : 46.0 : 1 | 973 | 1 19.0 | 1961 |
| : 8: | | : 34.0 : | 1945 : | : 43.2 : 1 | 974 : | 16.7 | 1948 |
| 1 9 1 | 73.7 1958 | : 31.6 : | 1950 : | : 43.0 : 1 | 949 | 16.9 | 1948 |
| : 10 : | 68.8 1973 | 34.3 | 1978 : | : 44.6 : 1 | 949 | 13.4 | 1950 |
| 1 | | | | | | | |
| : 11 : | 72.4 : 1954 : | : 35.2 : | 1938 : | : 47.0 : 1 | .954 | : 17.0 | 1935 |
| : 12 : | 74.7 1967 | 31.2 | 1938 : | 47.7 : 1 | 953 | : 14.8 | 1929 |
| : 13 : | 70.0 1953 | : 34.0 : | 1964 : | : 50.2 : 1 | .981 : | 14.2 | 1959 |
| : 14 : | 70.8 1967 | 33.0 : | 1964 : | : 51.2 : 1 | 1953 | 3.2 | 1955 |
| : 15 : | 70.0 : 1941 : | : 14.8 : | 1955 | : 45.9 : 1 | .966 + | -10.0 | 1955 |
| ; | | | | | | | |
| : 16 : | 67.5 1981 | 1 16.0 1 | 1955 ; | : 49.1 : 1 | 941 : | : -13.6 | 1955 |
| 17 | 67.8 1981 | 27.6 | 1955 : | : 46.4 :] | | 9.6 | market or an annual management of the |
| : 18 | 62.7 1967 | 1 29.9 1 | 1958 : | : 47.0 : 1 | | 5.8 | |
| 1 19 | 66.8 1943 | 1 28.0 1 | 1930 | 45.2] | | 3.0 | 1930 |
| 20 | 64.6 1966 | 1 25.5 1 | 1977 : | : 44.2 : 1 | 966 | 2.0 | 1930 |
| 1 | | | | | | | |
| : 21 : | | : 24.9 : | | : 45.0 : 1 | | 5.2 | |
| : 22 : | | : 26.8 : | AND DESCRIPTION OF THE PERSON | : 41.0 :] | NAME AND ADDRESS OF THE OWNER, WHEN PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE | | 1930 |
| : 23 : | | | 1931 : | : 43.1 : 1 | | | 1940 |
| : 24 : | 63.8 1981 | the state of the s | 1931 | | 1960 | THE RESERVE THE PARTY OF THE PA | 1931 |
| : 25 : | 68.6 1960 | : 28.0 : | 1952 | : 46.0 :] | 1960 | ; 0.8 | 1931 |
| 1 | | | | | | | |
| : 26 | 67.5 1949 | : 26.8 : | | | 1960 : | and the supplied Property and A Property and Advantage of the Park | 1952 |
| : 27 | 67.2 1949 | : 26.3 : | | 39.3] | THE RESERVE AND ADDRESS OF THE PARTY OF THE | 6.0 | |
| 1 28 | | : 26.8 : | | 39.0] | | | 1976 |
| : 29 | The second secon | | 1975 : | : 41.0 :] | | 5.2 | |
| : 30 : | 61.0 1932 | 25.8 1 | 1930 : | ; 42.0 ;] | 1932 | 6.1 | 1931 |
| ! | | | | | | | |
| Mnth | | 1 11 | | . 54 4 1 3 | 4/ ; | | 16/ |
| ; | 1 74.7 1967 | 14.8 | 1955 | : 54.4 :] | 1977 | 1 -13.6 | 1955 |

⁺ Also in earlier years.

TABLE 41

December 1928 - December 1988

Month: DECEMBER

| Day : | High Year | Low Year | High Year | Low Year |
|--------|---------------|--------------------------|--------------------------|---------------------|
| ! ! | Max of | Max of | Min of | ! Min ! of ! |
| 1 1 | : Event: | : Event: | : Event: | Event |
| : 1: | 61.0 : 1973 : | : 23.8 : 1930 : | : 39.0 : 1947 : | 6.3 1931 |
| ; 2 ; | 60.8 1939 | 23.5 1930 | : 40.4 : 1977 : | 6.0 1934 |
| 1 3 ! | 59.0 : 1939 : | : 27.3 : 1963 : | : 49.0 : 1980 : | : 4.9 : 1931 : |
| : 4: | 58.4 1980 | 25.9 1963 | : 47.0 : 1946 : | 10.0 1971 |
| : 5: | 59.9 1946 | : 16.9 : 1972 : | : 42.2 : 1946 : | -2.8 1972 |
| ! | | | | 1 |
| : 6: | 57.7 : 1987 : | : 23.4 : 1978 : | : 41.0 : 1946 : | 8.5 1931 |
| : 7: | 59.6 1939 | 19.0 1978 | : 38.0 : 1983 : | 0.8 1951 |
| 1 8 1 | 62.2 1939 | : 18.2 : 1978 : | : 40.7 : 1950 : | -3.4 1956 |
| : 9: | 62.2 1939 | 12.7 1 1972 | 48.3 1939 | -11.0 1972 |
| : 10 : | 66.1 1939 | : 17.4 : 1961 : | : 51.0 : 1929 : | : -12.8 : 1972 : |
| 1 | | | | |
| : 11 : | 58.9 1933 | ; 11.5 ; 1972 ; | 45.0 1929 | 1 -12.0 1932 |
| 1 12 1 | 59.0 1929 | 1 7.9 1 1932 1 | 48.3 1929 | -20.0 1932 |
| 1 13 : | | 10.9 1932 | : 45.0 : 1929 : | : -21.4 : 1932 : |
| : 14 : | | 15.0 1932 | 46.3 1977 | 1 -19.0 1932 |
| 1 15 : | 58.8 1946 | 16.8 1932 | 39.4 1946 | : -14.7 : 1972 : |
| 1 | | | | 1 |
| 1 16 1 | 57.8 1939 | 18.2 1932 | : 40.9 : 1957 : | : -13.8 : 1932 : |
| : 17 : | | 18.7 1932 | : 37.0 : 1939 : | -4.2 1931 |
| 18 : | | 23.4 1964 | 35.7 1955 | 1.0 1932 |
| : 19 : | | 26.2 1930 | 46.0 1955 | : -1.0 : 1931 : |
| 20 1 | 60.6 1981 | 22.2 1949 | 40.4 1941 | -5.7 1930 |
| 1 | | | | |
| 21 : | | ; 20.8 ; 1968 ; | : 44.2 : 1964 : | : -4.0 : 1930 : |
| 1 22 1 | | 21.0 1968 | 49.1 1955 | -4.6 1930 |
| 1 23 1 | | 16.3 1983 | : 51.9 : 1955 : | -2.3 1930 |
| : 24 : | | 21.0 1928 | : 41.0 : 1971 : | -3.1 1930 |
| 25 : | 59.2 1955 | 19.8 1948 | 46.0 1955 | -6.7 1930 |
| 1 | | | | |
| : 26 : | | 19.0 : 1970 : | : 43.0 : 1955 : | -6.2 1930 |
| : 27 : | | 17.8 1988 | 1 41.0 1934 | : -4.3 : 1930 : |
| : 28 : | | : 24.2 : 1939 : | 40.3 1945 | -1.7 1930 |
| : 29 : | | 1 20.2 1988 | 41.4 1933 | : -4.4 : 1930 : |
| : 30 : | 51.0 1933 | : 20.0 : 1978 : | 42.3 1933 | -3.8 1930 |
| ! | | | | 1 0 1 1000 |
| : 31 : | 58.3 1942 | 19.8 1978 | 39.2 1942 | : -4.3 : 1930 : |
| 1 | | | | |
| :Mnth: | | ; 12/; ; 7.9 ; 1932 ; | 1 23/ 1 1 51.9 1955 | 13/ 13/ 1-21.4 1932 |
| 1 1 | | | | |

⁺ Also in earlier years.

#NORMAL AND HIGHEST AND LOWEST DAILY MAXIMA
BY MONTHS WITH DAY AND YEAR OF OCCURRENCE
May 1928 - December 1988

| Month | 1 | #Normal | 1 | Highes | t | Dail | У | Maximum | ! | ; | Lowest | Daily | Ma | ximum |
|-----------|---|---------|---|--------|---|------|---|---------|--------|-----|--------|-------|----|-------|
| | ; | Daily | 1 | | | | | | 1 | ; | | | | |
| | ! | Maximum | ; | Temp | 1 | Day | 1 | Year | 1 | 1 | Temp : | Day ! | | Year |
| January | 1 | 37.4 | ! | 61.5 | 1 | 26 | 1 | 1982 | l s | 1 | 3.6 : | 12 : | | 1963 |
| February | ; | 43.7 | 1 | 68.5 | 1 | 28 | 1 | 1972 | 1 | 1 | 6.0 | 7 : | | 1933 |
| March | ; | 51.5 | 1 | 77.9 | ; | 24 | 1 | 1956 | 1 | 1 | 26.2 | 4 ; | | 1933 |
| April | ! | 61.1 | 1 | 85.4 | 1 | 19 | 1 | 1962 | ; | ; | 34.9 | 1 ; | | 1936 |
| May | 1 | 72.4 | ; | 92.9 | 1 | 19 | 1 | 1958 | 1 | ! | 38.7 | 2 : | | 1964 |
| June | 1 | 83.3 | 1 | 103.5 | 1 | 29 | 1 | 1979+ | 1 | 1 | 48.7 | 11 : | | 1947 |
| July | : | 93.2 | ; | 106.6 | 1 | 26 | 1 | 1960 | 1 | 1 | 65.2 | 5 : | | 1982 |
| August | 1 | 90.0 | 1 | 104.0 | ; | 4 | 1 | 1979 | ! | 1 | 59.7 | 22 | | 1968 |
| September | 1 | 80.0 | ! | 100.0 | 1 | 8 | 1 | 1979 | ! | 1 | 41.0 : | 24 : | | 1934 |
| October | 3 | 66.7 | 1 | 88.6 | ! | 3 | 1 | 1963 | 1 | ! | 29.5 | 29 | ! | 1971 |
| November | 1 | 50.2 | 1 | 74.7 | ; | 12 | ; | 1969 | ! | - | 14.8 | 15 | | 1955 |
| December | 1 | 38.9 | ! | 66.5 | 1 | 21 | 1 | 1969 | 1 | 1 | 7.9 | 12 | 1 | 1932 |
| | 1 | | ! | | 1 | July | 1 | | 1 | ! | 1 | Jan. | 1 | |
| Annual | 1 | 64.0 | 1 | 106.6 | 1 | 26 | 1 | 1960 | ! | 1 1 | 3.6 | 12 | 1 | 1963 |
| | 1 | | 1 | | 1 | | , | | 1 | 1 | ! | ; | 1 | |

#Climatological Normals (1951 - 1980)

TABLE 5b

#NORMAL AND HIGHEST AND LOWEST DAILY MINIMA BY MONTHS WITH DAY AND YEAR OF OCCURENCE May 1928 - December 1988

| Month | ; | #Normal | 1 | Lowest | 1 | Daily | N | inimum | ; | ; | Highest | Daily | Minimum |
|-----------|---|---------|-----|--------|---|-------|---|--------|---|-----|---------|-------|---------|
| | 1 | Daily | 1 | | | | | | 1 | 1 | | | |
| | 1 | Minimum | 1 | Temp | 1 | Day | 1 | Year | 1 | 1 | Temp : | Day ! | Year |
| January | ! | 19.7 | - | -21.7 | ! | 25 | 1 | 1949 | 1 | 1 | 47.0 : | 14 : | 1980 |
| February | 1 | 24.4 | 1 | -30.0 | 1 | 9 | ! | 1933 | 1 | ! | 51.3 : | 18 : | 1986 |
| March | 1 | 29.9 | 1 | 1.8 | 1 | 4 | ! | 1966 | ! | 1 1 | 56.0 | 29 ; | 1943 |
| April | ; | 37.2 | ! | 14.2 | 1 | 2 | ; | 1936 | 1 | 1 | 61.2 | 16 ; | 1985 |
| May | 1 | 45.2 | 1 5 | 25.4 | 1 | 6 | 1 | 1965 | 1 | 1 | 68.7 | 23 : | 1934 |
| June | ; | 53.3 | 1 | 34.8 | 1 | 7 | ! | 1962+ | 1 | ; | 75.4 | 26 ; | 1981 |
| July | 1 | 61.8 | 1 | 40.0 | 1 | 1 | 1 | 1968 | 1 | 1 | 79.0 | 10 : | 1956 |
| August | ! | 59.7 | 1 | 36.6 | 1 | 31 | 1 | 1965 | 1 | 1 | 75.1 : | 7 : | 1983+ |
| September | , | 50.0 | ; | 27.0 | 1 | 18 | 1 | 1965 | 1 | 1 | 73.1 : | 5 : | 1978 |
| October | 1 | 39.3 | 1 | 16.1 | ; | 30 | 1 | 1971 | ! | 1 | 65.9 | 30 ; | 1950 |
| November | ! | 29.2 | ; | -13.6 | 1 | 16 | ! | 1955 | 1 | 1 | 54.4 | 4 : | 1977 |
| December | ! | 21.6 | ; | -21.4 | 1 | 13 | ; | 1932 | ; | ; | 51.9 | 23 ; | 1955 |
| | 1 | | 1 | | 1 | Feb. | 1 | • | ! | 1 | 1 | July! | |
| Annual | 1 | 39.3 | ; | -30.0 | 1 | 9 | 1 | 1933 | ; | 1 | 79.0 : | 10 : | 1956 |
| | 1 | | 1 | | 1 | | 1 | | 1 | 1 | ! | 1 | |

#Climatological Normals (1951-1980)

⁺Also equaled on 21 June 1961

⁺Also occurred in earlier years.

TABLE 6a

NORMAL#; HIGHEST AND LOWEST AVERAGE MAXIMUM TEMPERATURE
BY MONTHS WITH YEAR OF OCCURENCE
May 1928 - December 1988

| | 1 | Normal | 1 | Highest | t i | | 1 | Lowest | 1 . | |
|-----------|--------|---------|---|---------|--------|------|---|---------|-----|------|
| Month | 1 | Monthly | 1 | Average | 1 | Year | 1 | Average | 1 | Year |
| | , | Maximum | 1 | Maximum | 1 | | 1 | Maximum | 1 | |
| January | t 1 | 37.4 | 1 | 48.1 | 1 | 1953 | ; | 21.7 | 1 | 1949 |
| February | 1 | 43.7 | ; | 51.8 | 1 | 1934 | 1 | 29.1 | 1 | 1933 |
| March | 1 | 51.5 | 1 | 62.0 | 1 | 1934 | 1 | 40.5 | 1 | 1952 |
| April | 1 | 61.1 | 1 | 70.7 | 1 | 1934 | 1 | 53.4 | 1 | 1975 |
| May | 1 | 72.4 | 1 | 82.4 | 1 | 1934 | 1 | 63.8 | 1 | 1933 |
| June | 1 | 83.3 | ! | 92.2 | 1 | 1961 | ! | 73.0 | 1 | 1945 |
| July | 1 | 93.2 | 1 | 98.2 | 1 | 1960 | 1 | 87.2 | 1 | 1986 |
| August | 1 | 90.0 | 1 | 95.7 | 1 | 1967 | 1 | 82.3 | 1 | 1968 |
| September | 1 | 80.0 | 1 | 87.5 | 1 | 1979 | 1 | 70.8 | 1 | 1965 |
| October | 1 | 66.7 | 1 | 74.3 | 1 | 1988 | 1 | 56.4 | 1 | 1946 |
| November | 1 | 50.2 | ! | 57.2 | 1 | 1949 | 1 | 41.6 | 1 | 1938 |
| December | 1 | 38.9 | 1 | 48.1 | 1 | 1939 | 1 | 28.1 | 1 | 1930 |
| | , | | 1 | | 1 | 7/ | 1 | | 1 | 1/ |
| Annual | 1 | 64.0 | 1 | 98.2 | 1 | 1960 | 1 | 21.7 | 1 | 1949 |

TABLE 6b

NORMAL#; HIGHEST AND LOWEST AVERAGE MINIMA TEMPERATURE
BY MONTHS WITH YEAR OF OCCURENCE
May 1928 - December 1988

| | 1 | Normal | 1 3 | Highest | 1 | | 1 | Lowest | 1 | |
|-----------|---|---------|-----|---------|--------|------|---|---------|---|-------|
| Month | , | Monthly | 1 | Average | 1 | Year | 1 | Average | , | Year |
| | ! | Minimum | , | Minimum | 1 | | 1 | Minimum | 1 | |
| January | 1 | 19.7 | 1 | 36.9 | ! | 1953 | 1 | 1.4 | 1 | 1949 |
| February | 1 | 24.4 | 1 | 33.6 | 1 | 1986 | 1 | 3.4 | 1 | 1933 |
| March | 1 | 29.9 | 1 | 38.2 | 1 | 1978 | 1 | 27.2 | 1 | 1964 |
| April | ! | 37.2 | 1 | 43.6 | t t | 1985 | 1 | 32.5 | 1 | 1970+ |
| May | ; | 45.2 | 1 | 51.8 | 1 | 1985 | 1 | 40.6 | 1 | 1930 |
| June | 1 | 53 3 | 1 | 61.3 | 1 | 1988 | 1 | 47.5 | 1 | 1945 |
| July | 1 | 61.8 | 1 | 67.2 | 1 | 1985 | 1 | 58.4 | 1 | 1958 |
| August | 1 | 59.7 | 1 | 66.1 | 1 | 1983 | 1 | 53.2 | 1 | 1928 |
| September | 1 | 50.0 | 1 | 55.4 | 1 | 1983 | 1 | 43.8 | 1 | 1964 |
| October | 1 | 39.3 | 1 | 45.6 | 1 | 1988 | 1 | 33.9 | 1 | 1932 |
| November | 1 | 29.2 | 1 | 35.9 | 1 | 1953 | 1 | 19.3 | 1 | 1930 |
| December | 1 | 21.6 | 1 | 30.8 | 1 | 1950 | 1 | 6.5 | 1 | 1932 |
| | 1 | | 1 | | 1 | 7/ | 1 | | 1 | 1/ |
| Annual | 1 | 39.3 | 1 | 67.2 | 1 | 1985 | 1 | 1.4 | 1 | 1949 |

- + Also in earlier years.
- # Climatological normals (1951 1980)

NORMAL#; HIGHEST AND LOWEST MONTHLY; AND ANNUAL AVERAGE TEMPERATURE
May 1928 - December 1988

| Month | | Lowest Monthly | Month | Highest Monthly | |
|----------|---------------|---------------------|-----------|------------------|--|
| | Average Temp. | Average Temp. | | Average Temp. | Average Temp. |
| | Temp Date | Temp Date | | | Temp Date |
| JANUARY | | 11.6 1949 | JULY | | 73.8 1938 |
| Normal# | 36.3 1978 | 13.2 1937 | Normal# | 80.9 1988 | 74.2 1986 |
| Monthly | 35.7 1938 | 18.8 1931,1932 | Monthly | 80.7 1985 | 74.3 1932, 1950 |
| Mean | 35.5 1956 | 19.2 1944 | Mean | 80.1 1966 | 74.6 1952 |
| 28.6 | 35.2 1983 | 19.5 1963 | 77.5 | 79.9 1961 | 74.8 1928 |
| | 1 1 | 1 1 1 | | | |
| FEBRUARY | 42.2 1934 | 16.2 1933 | AUGUST | 78.6 1967 | 69.4 1968 |
| Normal# | 41.7 1958 | 22.6 1939 | Normal# | 78.4 1982 | 70.6 1928 |
| Monthly | 41.4 1986 | 22.8 1949 | Monthly | 78.0 1981 | 70.9 1965 |
| Mean | 40.4 1976 | 24.0 1929, 1955 | Mean | 77.9 1986+ | 71.9 1964 |
| 34.1 | 40.3 1957 | 25.6 1985 | 74.9 | 77.8 1958,1961 | 72.3 1976 |
| | | 1 1 1 | | 1 1 | |
| MARCH | 49.2 1934 | 32.0 1964 | SEPTEMBER | 71.4 1979 | 57.5 1965 |
| Normal# | 48.0 1978 | 33.3 1952 | Normal# | 69.7 1969 | 59.0 1970 |
| Monthly | 47.7 1986 | 35.1 1962 | Monthly | 68.7 1938 | 59.8 1971 |
| Mean | 46.9 1972 | 35.6 1948 | Mean | 68.5 1981 | 59.7 1941 |
| 40.7 | 45.2 1974 | 35.8 1942 | 65.0 | 68.2 1953,1960 | |
| | | | | | !!! |
| APRIL | 56.6 1934 | 44.2 1970 | OCTOBER | 60.0 1988 | 46.6 1946 |
| Normal# | 56.0 1930 | 44.3 1963, 1975 | Normal# | 57.9 1950 | 47.1 1970 |
| Monthly | 55.9 1987 | 44.4 1929 | Monthly | 57.8 1963 | 47.5 1971 |
| Mean | 55.7 1985 | 44.8 1945 | Mean | 57.5 1952 | 47.7 1969 |
| 49.2 | 55.6 1943 | 45.5 1933 | 53.0 | 56.7 1979 | 48.1 1932 |
| | | 1 1 | | 1 1 | |
| MAY | 66.7 1934 | 52.2 1933 | NOVEMBER | 46.1 1953,1965 | 31.8 1930 |
| Normal# | 65.1 1958 | 52.9 1953 | Normal# | 44.3 1949,1981 | 32.4 1938 |
| Monthly | 64.0 1969 | 53.2 1942 | Monthly | 44.0 1954 | 33.0 1931 |
| Mean | 63.9 1985 | 1 54.3 1950, 1975 | Mean | 43.6 1937 | 34.3 11952,1956 |
| 58.8 | 63.7 1940 | 54.7 1965 | 39.7 | 43.4 1974 | 34.5 1957 |
| | | | ! ! | ! ! | 1 1 |
| JUNE | 75.7 1988 | 60.2 1945 | DECEMBER | 37.9 1977 | 18.0 1932 |
| Normal# | 74.7 1961 | 63.0 1944 | Normal# | 37.8 1933 | 18.8 1930 |
| Monthly | 73.5 1986 | 63.2 1928,1964 | Monthly | 37.1 1955 | 22.5 1931 |
| Mean | 73.4 1974 | 63.3 1963 | Mean | 36.4 1981 | 22.7 1972 |
| 68.3 | 73.2 1977 | 63.6 1947 | 30.3 | 36.3 1937,1939 | THE RESIDENCE OF THE PERSON OF |
| | 1 1 | | ! | ! ! | 1 1 |

| | | | ; | ANNUAL | 1 | | |
|---|---------|----------------|---|-------------|---|--------|------------------|
| | Highest | Annual Average | 1 | 1929 - 1988 | 1 | Lowest | Annual Average |
| | Temp : | Year | 1 | | ! | Temp ! | Year |
| | 55.2 ! | 1934 | 1 | Normal# | 1 | 48.2 : | 1932 |
| | 54.3 ! | 1981 | ! | Annual | ; | 48.3 : | 1964 |
| | 53.8 : | 1940 | ! | Mean | 1 | 49.0 : | 1929 |
| • | 53.6 : | 1958 | ; | 51.7 | ; | 49.4 ; | 1930, 1944, 1955 |
| • | 53.5 | 1983 | ! | | 1 | 49.6 ; | 1942 |

[#] Climatological Standard Normals (1951 - 1980)

⁺ Also occurred in earlier years.

TABLE 8

RECORD NUMBER OF DAYS PER YEAR WITH MAXIMUM TEMPERATURES 90, 95, AND 100 DEGREES OR HIGHER 1928 - 1988

| 1 | 90 or | H | igher(1) | ! | 95 o | r H | ligher(2) | 1 | 100 | or | Higher(3) |
|---|-------|-----|----------|----|------|-----|-----------|----|------|-----|------------|
| 1 | Days | 1 | Year | 1 | Days | 1 | Year | 1 | Days | 1 | Year |
| ! | 82 | ! | 1961 | 1 | 51 | 1 | 1961 | ! | 21 | 1 | 1960 |
| ! | 75 | 1 | 1988 | 1 | 50 | 1 | 1940 | ! | 15 | , | 1961+ |
| 1 | 74 | 1 | 1966 | , | 44 | 1 | 1960 | 1 | 12 | ; | 1979 |
| 1 | 70 | 1 | 1974 | ; | 43 | 1 | 1967 | 1 | 11 | 1 | 1973+ |
| 1 | 69 | ! | 1960+ | ! | 40 | 1 | 1988 | ! | 10 | 1 | 1934 |
| 1 | 68 | ! | 1967+ | 1 | 35 | 1 | 1979+ | 1 | 9 | 1 | 1985+ |
| 1 | 67 | ! | 1940 | ! | 34 | 1 | 1931 | 1 | 8 | ; | 1978+ |
| 1 | 66 | ! | 1979 | ! | 33 | ! | 1969+ | 1 | 7 | 1 | 1972+ |
| 1 | 63 | ! | 1978+ | 1 | 31 | 1 | 1934 | 1 | 6 | ! | 1988+ |
| 1 | 62 | 1 | 1948 | 1 | 30 | 1 | 1985+ | 1 | 5 | - 1 | 1962+ |
| 1 | | 1 | | ! | | 1 | | 1 | | 1 | |
| 1 | 54 | ; A | nnual Av | g! | 23 | ! A | nnual Av | g; | 5 | 11 | Annual Avg |

- + Also in earlier years
- (1) Only years with 62 or more days tabulated
- (2) Only years with 30 or more days tabulated
- (3) Only years with 5 or more days tabulated

TABLE 9

AVERAGE AND HIGHEST NUMBER OF DAYS PER MONTH WITH MAXIMUM TEMPERATURES 90, 95, AND 100 DEGREES OR HIGHER

May 1928 - September 1988

| | Month | | 1 | 90 | or | Higher | 1 | 95 c | r | Higher | 1 | 100 | or | Higher |
|---|---------|-----|---|-----|-----|----------|----|------|---|---------|---|-----|----|---------|
| | | | 1 | Avg | 1 | Maximum | 1 | Avg | 1 | Maximum | 1 | Avg | 1 | Maximum |
| | May | | 1 | 1 | 1 | 7-1958 | 1 | 0 | 1 | | 1 | 0 | 1 | |
| | June | | 1 | 8 | 1 | 20-1961 | 1 | 3 | ! | 16-1961 | 1 | 1 | 1 | 8-1961 |
| | July | | 1 | 23 | 1 | 31-1960 | 1 | 12 | ! | 23-1960 | 1 | 3 | ; | 15-1960 |
| | August | | 1 | 18 | 1 | 31-1967 | 1 | 7 | ! | 22-1967 | 1 | 1 | 1 | 6-1960 |
| | Septemb | er | ! | 4 | . ; | 12-1979- | +; | 1 | 1 | 4-1955 | 1 | * | 1 | 1-1979 |
| - | - | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| | Annual | Avg | 1 | 54 | 1 | 82-1961 | 1 | 23 | 1 | 51-1940 | 1 | 5 | 1 | 21-1960 |

- + Also occurred in earlier years.
- * A high of 100.0 degrees was recorded on September 8, 1979 and is the only day in September ever to reach 100 degrees.

GREATEST NUMBER OF CONSECUTIVE DAYS# WITH 90 DEGREES OR HIGHER
DURING THE MONTHS OF JUNE THROUGH SEPTEMBER
June 1928 - September 1988

| - | Days | 1 | | Per | ric | od | | ! | Year | ; | ! | Days | ! | | Per | ric | od | | 1 | Year | - ! |
|---|------|---|-----|-----|-----|-----|----|---|------|---|---|------|---|-----|-----|-----|-----|----|---|------|-----|
| ; | 50 | ! | Jul | 18 | - | Sep | 5 | ! | 1967 | 1 | ; | 24 | 1 | Jul | 28 | | Aug | 24 | ; | 1963 | ; |
| ! | 39 | ! | Jul | 4 | - | Aug | 11 | 1 | 1966 | 1 | 1 | 22 | 1 | Jul | 20 | | Aug | 10 | 1 | 1942 | 1 |
| ! | 38 | 1 | Jul | 5 | _ | Aug | 11 | 1 | 1961 | ; | 1 | 21 | ; | Jul | 22 | - | Aug | 11 | 1 | 1978 | 1 |
| ! | 38 | ! | Jun | 24 | - | Jul | 31 | 1 | 1960 | 1 | 1 | 21 | 1 | Jul | 17 | _ | Aug | 6 | 1 | 1974 | -! |
| ! | 33 | 1 | Jul | 10 | - | Aug | 11 | 1 | 1969 | 1 | 1 | 21 | 1 | Jul | 23 | - | Aug | 12 | 1 | 1972 | ! |
| 1 | 33 | 1 | Jul | 10 | - | Aug | 11 | 1 | 1964 | 1 | ; | 21 | ! | Jul | 11 | | Jul | 31 | 1 | 1959 | - ! |
| ; | 31 | 1 | Jul | 2 | | Aug | 1 | 1 | 1968 | 1 | 1 | 21 | 1 | Jul | 8 | - | Jul | 28 | ; | 1956 | 1 |
| ; | 30 | ! | Jul | 24 | 1 | Aug | 22 | 1 | 1971 | 1 | 1 | 19 | 1 | Jun | 28 | - | Jul | 16 | 1 | 1985 | ! |
| ; | 27 | ; | Jul | 5 | - | Jul | 31 | 1 | 1935 | ; | ; | 19 | ; | Jul | 24 | - | Aug | 11 | 1 | 1979 | - ; |
| ; | 26 | 1 | Jul | 28 | - | Aug | 22 | 1 | 1940 | 1 | 1 | 19 | 1 | Jun | 24 | | Jul | 12 | 1 | 1979 | 1 |
| ; | 25 | ; | Jul | 8 | - | Aug | 1 | 1 | 1933 | 1 | 1 | | 1 | | | | | | 1 | | 1 |

Only periods of 19 days or more tabulated

TABLE 11

GREATEST NUMBER OF DAYS# WITH 90 DEGREES OR HIGHER IN ONE MONTH June 1928 - August 1988

| , | Days | 1 | Month | 1 | Year | 1 | 1 | Days | ! | Month | 1 | Year ! |
|---|------|---|--------|---|-------|-----|---|------|---|--------|---|--------|
| ; | 31 | 1 | August | 1 | 1967 | 1 | 1 | 27 | 1 | July | 1 | 1979+ |
| ; | 31 | ! | July | ! | 1960 | ; | 1 | 26 | ; | July | ! | 1978 |
| ! | 30 | 1 | July | 1 | 1968- | - : | 1 | 25 | 1 | August | 1 | 1981+ |
| ; | 29 | ; | July | 1 | 1966+ | - ; | ; | 25 | 1 | July | 1 | 1959+ |
| 1 | 28 | 1 | July | ! | 1967 | ! | ! | | ! | | 1 | ; |

- # Only periods of 25 days or more tabulated
- + Also in July or August of earlier years

TABLE 12

EARLIEST DATE OF OCCURRENCE IN THE SPRING AND THE LATEST DATE OF OCCURRENCE IN THE FALL OF 90 DEGREES OR HIGHER Spring 1928 - Fall 1988

| Earliest | in | the | Spring | | | | | .May | 2, | 1947 | |
|-----------|------|------|--------|------|------|------|-----|------|----|------|--|
| Intest in | 2 +1 | no F | all | | | Sai | nte | mher | 30 | 1957 | |

GREATEST NUMBER OF CONSECUTIVE DAYS# WITH 95 DEGREES OR HIGHER
DURING THE MONTHS OF JUNE THROUGH SEPTEMBER
June 1928 - September 1988

| ; D | ays | 1 | | Per | ric | bd | | 1 | Year | 1 | 1 | Days | 1 | | Period | | | 1 | Year |
|-----|-----|---|-----|-----|-----|-----|----|---|------|---|---|------|---|-----|---------|-----|---|---|------|
| ; | 20 | ; | Jul | 23 | - | Aug | 11 | 1 | 1978 | 1 | 1 | 11 | 1 | Jul | 11 - Ju | 1 2 | 1 | 1 | 1933 |
| ! | 20 | 1 | Jul | 11 | - | Jul | 30 | 1 | 1960 | 1 | 1 | 10 | 1 | Jul | 20 - Ju | 1 2 | 9 | 1 | 1945 |
| ! | 16 | ! | Jul | 11 | - | Jul | 26 | 1 | 1967 | ! | ! | 10 | ! | Jul | 23 - Au | g | 1 | 1 | 1943 |
| ! | 15 | 1 | Jul | 13 | - | Jul | 27 | 1 | 1931 | ; | 1 | 10 | 1 | Jun | 12 - Ju | n 2 | 1 | 1 | 1940 |
| ! | 12 | 1 | Jun | 18 | - | Jun | 29 | 1 | 1961 | ; | 1 | 9 | ! | Jul | 21 - Ju | 1 2 | 9 | 1 | 1980 |
| 1 | 12 | 1 | Aug | 3 | - | Aug | 14 | 1 | 1960 | 1 | 1 | 9 | ; | Jul | 3 - Ju | 1 1 | 1 | 1 | 1976 |
| ! | 12 | ; | Jul | 6 | - | Jul | 17 | 1 | 1954 | 1 | 1 | 9 | 1 | Jul | 3 - Ju | 1 1 | 1 | ! | 1973 |
| ! | 12 | ! | Jul | 4 | | Jul | 15 | 1 | 1940 | ; | ! | 9 | 1 | Aug | 4 - Au | g 1 | 2 | 1 | 1972 |
| ! | 11 | 1 | Aug | 1 | - | Aug | 11 | 1 | 1985 | , | ; | 9 | 1 | Jul | 11 - Ju | 1 1 | 9 | 1 | 1934 |
| ! | 11 | 1 | Jul | 18 | - | Jul | 28 | 1 | 1937 | 1 | 1 | 9 | 1 | Aug | 14 - Au | g 2 | 2 | 1 | 1932 |
| ! | 11 | 1 | Jul | 16 | _ | Jul | 26 | ! | 1936 | ! | 1 | | 1 | | | | | 1 | |

Only periods of 9 days or more tabulated

TABLE 14

GREATEST NUMBER OF DAYS# WITH 95 DEGREES OR HIGHER IN ONE MONTH

June 1928 - August 1988

| 1 | Days | 1 | Month | 1 | Year | 1 | 1 | Days | 1 | Month | 1 | Year |
|---|------|---|--------|---|-------|---|---|------|---|--------|---|-------|
| 1 | 23 | 1 | July | 1 | 1960 | ! | 1 | 18 | ! | July | ! | 1964+ |
| ! | 22 | 1 | August | 1 | 1967 | 1 | 1 | 17 | 1 | July | 1 | 1976+ |
| ! | 22 | , | July | ! | 1961 | 1 | ; | 16 | 1 | July | 1 | 1985+ |
| ! | 20 | 1 | July | 1 | 1978+ | 1 | 1 | 16 | 1 | June | 1 | 1961 |
| ; | 19 | 1 | July | ; | 1967 | 1 | 1 | 16 | ! | August | 1 | 1960 |
| 1 | 18 | 1 | August | 1 | 1969+ | 1 | ; | | ; | | 1 | |

- # Only periods of 16 days or more tabulated
- + Also in July or August of earlier years

TABLE 15

EARLIEST DATE OF OCCURRENCE IN THE SPRING AND THE LATEST DATE OF OCCURRENCE IN THE FALL OF 95 DEGREES OR HIGHER Spring 1928 - Fall 1988

| Earliest | in | the | Spring | | | • | | | June | 4, | 1988 |
|-----------|------|-------|--------|------|------|---|------|-----|--------|-----|------|
| Latest in | ı th | ne Fa | all | | | | | Sep | tember | 19. | 1956 |

GREATEST NUMBER OF CONSECUTIVE DAYS# WITH 100 DEGREES OR HIGHER
DURING THE MONTHS OF JUNE THROUGH AUGUST
June 1928 - August 1988

| ; | Days | ; | | Per | ric | od | | ! | Year | 1 | 1 | Days | ; | | Per | ric | od | | 1 | Year |
|---|------|---|-----|-----|-----|-----|-----|---|------|---|---|------|---|-----|-----|-----|-----|----|---|------|
| ! | 9 | 1 | Jul | 14 | - | Jul | 22 | ; | 1960 | 1 | 1 | 4 | ! | Jul | 3 | - | Jul | 6 | ! | 1973 |
| ! | 8 | ! | Jul | 20 | _ | Jul | 27 | ! | 1931 | ; | 1 | 4 | ; | Aug | 9 | - | Aug | 12 | ! | 1972 |
| ; | 6 | 1 | Jul | 6 | - | Jul | 11 | 1 | 1976 | 1 | 1 | 4 | 1 | Aug | 12 | - | Aug | 15 | ! | 1962 |
| ; | 6 | 1 | Jul | 24 | _ | Jul | 29 | ; | 1960 | ; | 1 | 4 | ; | Jun | 20 | | Jun | 23 | 1 | 1961 |
| ; | 5 | 1 | Jul | 2 | _ | Jul | 6 | ! | 1985 | ! | 1 | 4 | ! | Jul | 10 | - | Jul | 13 | 1 | 1954 |
| ! | 4 | ; | Aug | 3 | - | Aug | 6 | ! | 1979 | ; | 1 | 4 | 1 | Jul | 24 | - | Jul | 27 | 1 | 1943 |
| ! | 4 | ! | Jul | 15 | _ | Jul | 1.8 | 1 | 1979 | 1 | 1 | 4 | 1 | Jul | 16 | - | Jul | 19 | ; | 1940 |
| ! | 4 | ! | Jul | 24 | _ | Jul | 27 | 1 | 1978 | 1 | 1 | 4 | 1 | Jul | 12 | - | Jul | 15 | 1 | 1935 |
| ; | 4 | 1 | Jul | 8 | | Jul | 11 | ! | 1973 | ; | 1 | | 1 | | | | | | 1 | |

Only periods of 4 days or more tabulated

TABLE 17

GREATEST NUMBER OF DAYS# WITH 100 DEGREES OR HIGHER IN ONE MONTH June 1928 - August 1988

| 1 | Days | 1 | Month | ; | Year | 1 | 1 | Days | 1 | Month | 1 | Year |
|---|------|---|-------|---|-------|-----|---|------|---|--------|---|-------|
| ! | 15 | ; | July | ; | 1960 | 1 | 1 | 7 | 1 | July | ! | 1978+ |
| ! | 12 | 1 | July | ! | 1931 | 1 | ; | 6 | ! | July | 1 | 1985+ |
| ; | 9 | ! | July | ! | 1966 | ; | 1 | 6 | 1 | August | ! | 1960 |
| 1 | 8 | ! | July | 1 | 1976- | +; | ! | 5 | 1 | August | ! | 1979 |
| , | 8 | ! | June | 1 | 1961 | - ! | 1 | 5 | 1 | July | ! | 1979+ |

- # Only periods of 5 days or more tabulated
- + Also in July or August of earlier years

TABLE 18

EARLIEST DATE OF OCCURRENCE IN THE SPRING AND THE LATEST DATE OF OCCURRENCE IN THE FALL OF 100 DEGREES OR HIGHER Spring 1928 - Fall 1988

| Earliest in the SpringJune | 7, | 1985 |
|-----------------------------|----|------|
| Latest in the FallSeptember | 8. | 1979 |

GREATEST NUMBER OF DAYS# IN ONE MONTH WITH A MAXIMUM TEMPERATURE OF 32 DEGREES OR BELOW December 1928 - February 1988

| Days | 1 | Month | 1 | Year | ; | 1 | Days | ! | Month | 1 | Year |
|------|---|----------|---|-------|-----|---|------|---|----------|---|-------|
| 26 | ; | January | 1 | 1949+ | ! | 1 | 17 | ; | January | ; | 1929 |
| 25 | 1 | January | 1 | 1944 | 1 | ; | 16 | 1 | December | 1 | 1972+ |
| 25 | 1 | December | 1 | 1930 | 1 | ; | 16 | 1 | January | 1 | 1950 |
| 24 | ; | January | 1 | 1931 | 1 | ! | 15 | 1 | January | 1 | 1987 |
| 23 | ! | January | ! | 1973 | ; | 1 | 15 | 1 | December | 1 | 1967 |
| 22 | 1 | January | 1 | 1984+ | - ! | 1 | 15 | ; | February | 1 | 1950 |
| 21 | 1 | January | 1 | 1979+ | 1 | ; | 14 | ! | December | ! | 1966+ |
| 20 | 1 | December | 1 | 1985+ | - ! | 1 | 14 | 1 | January | 1 | 1988+ |
| 20 | ! | January | 1 | 1942+ | . ; | ; | 13 | 1 | January | ! | 1985 |
| 19 | ! | January | ; | 1947 | 1 | 1 | 13 | 1 | December | 1 | 1968+ |
| 18 | 1 | January | 1 | 1964 | ! | ; | 13 | 1 | February | 1 | 1949 |
| 17 | ; | February | 1 | 1933 | 1 | 1 | | 1 | | 1 | |

⁺ Also occurred in earlier years. #Only months with 13 or more days tabulated.

TABLE 20

GREATEST NUMBER OF CONSECUTIVE DAYS# WITH MAXIMUM TEMPERATURE OF 32 DEGREES OR BELOW December 1928 - February 1988

| Da | ys | 1 | | | Perio | od | | | 1 | 1 | Days | 1 | | | Per | io | d | | |
|----|----|---|-----|-----|--------|-------|-----|------|-----|---|------|---|-----|-----|------|----|-----|-----|------|
| 1 | 8 | 1 | Jan | 23, | 1949 - | - Feb | 9, | 1949 | 1 | 1 | 14 | 1 | Jan | 8, | 1987 | - | Jan | 21, | 1987 |
| 1 | 7 | 1 | Jan | 21, | 1962 - | - Feb | 6, | 1962 | 1 | ! | 14 | ! | Dec | 29, | 1972 | - | Jan | 11, | 1973 |
| 1 | 5 | 1 | Dec | 16, | 1985 - | - Dec | 30, | 1985 | 1 | 1 | | 1 | | | | | | | |
| 1 | .5 | 1 | Jan | 20, | 1979 - | Feb | 5, | 1979 | 1 | 1 | | 1 | | | | | | | |
| 1 | 5 | ; | Dec | 28, | 1946 - | - Jan | 11, | 1947 | ! | 1 | | ! | | | | | | | |
|] | 4 | ! | Dec | 23, | 1987 - | - Jan | 5, | 1988 | 1 1 | 1 | | 1 | | | | | | | |

[#]Only periods of 14 or more days tabulated.

TABLE 21

AVERAGE NUMBER OF DAYS WITH MAXIMUM TEMPERATURE 32 DEGREES OR BELOW November 1928 - December 1988

| November | l day | January | 10 days | March | 1 day |
|----------|--------|----------|---------|--------|---------|
| December | 7 days | February | 4 days | Annual | 23 days |

GREATEST NUMBER OF CONSECUTIVE DAYS WITH MINIMUM 32 DEGREES OR LOWER May 1928 - February 1988

(Only Periods of 50 Days or More Tabulated)

| | | ! | | | | | | | | ! | | 1 |
|---|---------|---|-----|-----|--------|----|-----|-----|------|----|------|-----|
| | Year | 1 | | | Per | io | d | | | 1] | Days | 5 |
| | | 1 | | | | | | | | ! | | 1 |
| | 1930-31 | 1 | Nov | 14, | 1930 - | _ | Feb | 15, | 1931 | ! | 94 | - ! |
| | 1932-33 | 1 | Dec | 1, | 1932 - | - | Mar | 8, | 1933 | ! | 88 | , |
| | 1928-29 | ; | Nov | 15, | 1928 - | _ | Feb | 3, | 1929 | 1 | 81 | - |
| | 1939 | ! | Jan | 6, | 1928 - | - | Mar | 8, | 1928 | ! | 62 | ; |
| ! | 1943-44 | 1 | Dec | 21, | 1943 - | _ | Feb | 21, | 1944 | 1 | 62 | |
| | 1984-85 | 1 | Dec | 31, | 1984 | - | Mar | 1, | 1985 | ; | 61 | ! |
| ! | 1963-64 | 1 | Nov | 21, | 1963 - | _ | Jan | 19, | 1964 | 1 | 60 | _ ! |
| 1 | 1975-76 | 1 | Dec | 28, | 1975 - | - | Feb | 32, | 1976 | 1 | 57 | ; |
| ! | 1955 | ! | Jan | 2, | 1955 | | Feb | 25, | 1955 | 1 | 55 | 1 |
| ! | 1977 | ; | Jan | 3, | 1977 - | _ | Feb | 21, | 1977 | 1 | 50 | ; |

TABLE 23

AVERAGE NUMBER OF DAYS WITH MINIMUM 32 DEGREES OR LOWER May 1928 - February 1988

| ! | January | _ | 28 days | 1 |
|---|-----------|---|-----------------|---|
| ; | February | - | 23 days | ţ |
| 1 | March | | 19 days | 1 |
| 1 | April | - | 7 days | ; |
| 1 | May | | 1 day | 1 |
| 1 | June | _ | 0 | , |
| ; | July | _ | 0 | 1 |
| ; | August | | 0 | 1 |
| ! | September | - | Less than 1 day | 1 |
| ! | October | - | 5 days | ; |
| ! | November | _ | 21 days | 1 |
| 1 | December | - | 27 days | ; |
| 1 | | | | ; |
| ; | Annual | - | 131 days | 1 |

GREATEST NUMBER OF DAYS# IN ONE MONTH WITH A MINIMUM TEMPERATURE OF O DEGREES OR BELOW December 1928 - February 1988

| , | Days | ; | Month | 1 | Year | 1 | 1 | Days | 1 | Month | 1 | Year |
|---|------|---|----------|---|------|---|---|------|---|----------|---|-------|
| 1 | 15 | 1 | January | 1 | 1949 | 1 | 1 | 7 | ; | January | 1 | 1973 |
| ; | 14 | ! | January | ! | 1937 | ! | ; | 7 | 1 | December | 1 | 1932 |
| 1 | 12 | 1 | December | 1 | 1930 | 1 | ; | 6 | ; | January | 1 | 1974+ |
| ! | 11 | 1 | February | 1 | 1933 | ! | 1 | 6 | 1 | December | 1 | 1931 |
| , | 9 | ! | December | 1 | 1972 | ; | ! | 6 | ; | February | ; | 1929 |
| ! | 9 | 1 | January | ! | 1932 | ! | 1 | 5 | 1 | January | 1 | 1984+ |
| ! | 8 | ! | January | ; | 1942 | ! | ; | 5 | ; | February | 1 | 1949 |

#Only months with 5 or more days tabulated. +Also in earlier years.

TABLE 25

GREATEST NUMBER OF CONSECUTIVE DAYS# WITH A MINIMUM TEMPERATURE OF 0 DEGREES OR BELOW December 1928 - February 1988

| 1 | Days | 1 | | | Perio | d | | | 1 | 1 | Days | 1 | | | Per | ioc | d | | | 1 |
|---|------|---|-----|-----|--------|-----|-----|------|---|---|------|---|-----|-----|------|-----|-----|-----|------|---|
| 1 | 13 | ! | Dec | 20, | 1930 - | Jan | 1, | 1931 | } | 1 | 6 | 1 | Jan | 7, | 1937 | | Jan | 12, | 1937 | 1 |
| 1 | 8 | 1 | Dec | 9, | 1972 - | Dec | 16, | 1972 | 1 | 1 | 6 | 1 | Dec | 11, | 1932 | | Dec | 16, | 1932 | 1 |
| 1 | 7 | ; | Jan | 20, | 1937 - | Jan | 26, | 1937 | , | 1 | 5 | 1 | Jan | 17, | 1984 | | Jan | 21, | 1984 | 1 |
| ! | 7 | ! | Feb | 4. | 1933 - | Feb | 10, | 1933 | - | 1 | 5 | ! | Jan | 21, | 1962 | - | Jan | 28, | 1962 | 1 |
| 1 | | _ | | | 1973 - | | | | _ | ; | 5 | 1 | Feb | 7, | 1929 | - | Feb | 11, | 1929 | 1 |
| ! | 6 | ! | Jan | 24, | 1949 - | Jan | 29, | 1949 | 1 | ! | | 1 | 4 | | | | | | | 1 |

#Only periods of 5 or more days tabulated.

TABLE 26

AVERAGE NUMBER OF DAYS WITH MINIMUM TEMPERATURE O DEGREES OR BELOW November 1928 - February 1988

| November | * | day | January | 2 | days | Annual | 4 | days |
|----------|---|-----|----------|---|------|--------|---|------|
| December | 1 | day | February | 1 | day | | | |

*Less that 1/2 day

TABLE 27

FREEZE DATA SALT LAKE AIRPORT Fall 1928 - Fall 1988

| 1 1 | | | | | FREE | ZE | (3 | 2 deg | grees (| or | belo | ow) | | | | |
|-----|--------|--------|----|---------|--------|----|-----|-------|---------|----|------|-----|------|---|--------------|--|
| 1 | Latest | date | 1 | Average | Date | ; | Ear | lies | t Date | ; | Late | est | Date | ; | Average Date | |
| 1 | in the | Sprin | g; | in the | Spring | ; | in | the 1 | Fall | ! | in t | the | Fall | ! | in the Fall | |
| ; | May 28 | , 1954 | ; | | | 1 | Sep | 13, | 1928 | ; | Nov | 14, | 1988 | ! | | |
| 1 | May 25 | , 1975 | ; | | | 1 | Sep | 17, | 1965 | 1 | Nov | 13, | 1944 | 1 | | |
| 1 | May 23 | , 1966 | ! | | | ; | Sep | 18, | 1946 | ; | Nov | 11, | 1987 | , | | |
| 1 | May 22 | , 1982 | 1 | | | 1 | Sep | 19, | 1942 | 1 | Nov | 9, | 1985 | 1 | | |
| 1 | May 19 | , 1931 | 1 | | | ; | Sep | 19, | 1964 | 1 | Nov | 8, | 1983 | ; | | |
| 1 | May 19 | , 1938 | 1 | | | 1 | Sep | 22, | 1968 | 1 | Nov | 5, | 1974 | 1 | | |
| 1 | May 19 | , 1950 | 1 | April | 30 | 1 | Sep | 24, | 1961 | ! | Nov | 3, | 1940 | ; | October 15 | |
| 1 | May 19 | , 1960 | 1 | | | 1 | Sep | 25, | 1958 | 1 | Nov | 1, | 1977 | 1 | | |
| 1 | May 16 | , 1955 | 1 | | | 1 | Sep | 25, | 1970 | 1 | Oct | 31, | 1981 | 1 | | |
| | May 13 | | | | | ! | Sep | 27, | 1934 | 1 | Oct | 30, | 1979 | 1 | | |
| 1 | May 13 | , 1951 | 1 | | | | _ | | 1936 | | | | | 1 | | |
| | May 13 | | | | | | _ | - | 1941 | | | | | 1 | | |
| | May 11 | | | | | | _ | _ | 1971 | | | | 1972 | 1 | | |
| | May 11 | | | | | ! | | , | | 1 | | , | | 1 | | |

| 1 | | | | | | | | | * | FREE | ZE | -FRE | E P | ER. | COD | | | 1 | | 1 |
|---|------|---|-----|-----|-----|------|-----|------|-----|------|----|------|------|-----|-----|-----|------|-----|----------|----|
| 1 | | |] | Lon | ges | st | | | 1 | | | She | orte | est | | | | ; | Average | 1 |
| 1 | | 1 | | | | | | | 1 | | 1 | | | | | | | 1 | Length | 1 |
| ; | Days | 1 | | | 1 | Date | | | ; | Day | s! | | | I | ate | | | 1 | | 1 |
| 1 | 223 | 1 | Mar | 30 | - | Nov | 9, | 1985 | ; | 124 | 1 | May | 29 | _ | Sep | 29, | 1954 | ; | | ! |
| 1 | 205 | 1 | Apr | 20 | | Nov | 10, | 1987 | 1 | 132 | 1 | May | 8 | _ | Sep | 16, | 1965 | - 1 | | ! |
| 1 | 195 | 1 | May | 3 | - | Nov | 13, | 1988 | 1 | 134 | 1 | May | 20 | - | Sep | 30, | 1950 | 1 | | 1 |
| 1 | 195 | 1 | Apr | 27 | _ | Nov | 7, | 1983 | 1 | 136 | 1 | May | 6 | - | Sep | 18, | 1964 | ; | | 1 |
| 1 | 194 | 1 | Apr | 23 | | Nov | 2, | 1940 | ! | 137 | 1 | May | 8 | _ | Sep | 21, | 1968 | ! | | 1 |
| 1 | 194 | , | Apr | 21 | - | Oct | 31, | 1977 | 1 | 139 | 1 | May | 24 | - | Oct | 9, | 1966 | ; | 167 Days | 1 |
| 1 | 193 | 1 | Apr | 18 | - | Oct | 27, | 1939 | ; | 139 | 1 | May | 2 | | Sep | 17, | 1946 | ! | | 1. |
| ; | 193 | 1 | May | 4 | - | Nov | 12, | 1944 | - ! | 139 | ; | May | 23 | - | Oct | 8, | 1982 | ; | | ; |
| 1 | 192 | 1 | Apr | 21 | | Oct | 29, | 1979 | 1 | 140 | , | May | 7 | _ | Sep | 23, | 1961 | 1 | | 1 |
| 1 | 191 | 1 | Apr | 14 | _ | Oct | 21, | 1980 | | | | | | | | | 1942 | 1 | | 1 |
| 1 | | 1 | - | | | | | | 1 | | 1 | | | | | | | | | 1 |

*Freeze-free period is the number of days between the last freeze (32 degrees or below) in the spring and the first freeze (32 degrees or below) in the fall.

TABLE 28

GROWING SEASON# DATA SALT LAKE AIRPORT Fall 1928 - Fall 1988

| ! | Min Temp | 1 | Latest in | 1 | Spring | ; | First in | ; | Fall |
|---|----------|---|-----------|---|--------|---|----------|---|--------|
| 1 | Base | ! | Spring | 1 | Avg | 1 | Fall | 1 | Avg |
| 1 | 32 or | 1 | May 28 | 1 | Apr 30 | 3 | Sep 13 | 1 | Oct 15 |
| 1 | Below | 1 | 1954 | 1 | | 1 | 1928 | 1 | |
| | 28 or | 1 | May 9 | ! | Apr 12 | 1 | Sep 18 | 1 | Oct 25 |
| | Below | 1 | 1930 | 1 | | 1 | 1965 | 1 | |
| | 24 or | 1 | Apr 21 | ; | Mar 24 | ; | Oct 17 | ! | Nov 9 |
| | Below | 1 | 1982 | 1 | | ; | 1964 | 1 | |
| | 20 or | ; | Apr 10 | 1 | Mar 10 | 1 | Oct 25 | 1 | Nov 22 |
| | Below | 1 | 1933 | 1 | | ; | 1932 | 1 | |
| | 16 or | ! | Apr 5 | 1 | Feb 24 | 1 | Oct 30 | 1 | Nov 28 |
| 1 | Below | 1 | 1955 | 1 | | ; | 1971 | 1 | |
| 1 | 10 or | 1 | Mar 19 | 1 | Feb 9 | 1 | Nov 3 | 1 | Dec 11 |
| , | Below | 1 | 1965 | 1 | | 1 | 1936 | 1 | |

| ! | Min Temp | 1 | N | inimum Le | engt | h | of | 1 | Maximum Length of | Avg |
|---|----------|---|-----|-----------|------|----|------|---|-----------------------|--------|
| ! | Base | 1 | | Growing S | Seas | 50 | n | ; | Growing Season | Length |
| | 2.42 | ! | | Period | | ; | Days | 1 | Period Days | Days |
| - | 32 or | ! | May | 29 - Sep | 29 | 1 | 124 | | Mar 30 - Nov 9 1 223 | 167 |
| | Below | 1 | | 1954 | | 1 | | 1 | 1985 | |
| - | 28 or | 1 | May | 9 - Oct | 16 | 1 | 159 | 1 | Mar 9 - Nov 26 : 261 | 199 |
| | Below | 1 | | 1930 | | 1 | | 1 | 1934 | |
| - | 24 or | 1 | Apr | 17 - Oct | 29 | ; | 194 | ! | Jan 27 - Nov 26 : 302 | 226 |
| | Below | , | | 1960 | | 1 | | 1 | 1934 | |
| - | 20 or | 1 | Apr | 2 - Nov | 2 | 1 | 213 | 1 | Jan 26 - Nov 30 : 307 | 254 |
| | Below | 1 | | 1936 | | 1 | | 1 | 1934 | |
| - | 16 or | 1 | Apr | 2 - Nov | 2 | t | 213 | ! | Dec 21 - Dec 5 : 348 | 278 |
| | Below | 1 | | 1936 | | 1 | | 1 | 1977 - 1978 | |
| - | 10 or | 1 | Feb | 28 - Nov | 18 | 1 | 262 | 1 | Dec 26 - Dec 28 : 366 | 310 |
| | Below | 1 | | 1929 | | ! | | ; | 1952 - 1953 | |

#Growing season is the number of days between the last selected minimum temperature base in the spring and the first selected minimum temperature base in the fall.

FIGURE 5 SALT LAKE CITY AIRPORT SEASONAL PRECIPITATION RECORD 1928-1929 to 1987-1988 (Water Year)#

| TNOIMO | 0 | _ | c | 7 | 0 | 0 | 10 | 11 | 12 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|--------------------|---|---|---|---|---|---|------|------|------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|-----|-------|-------|-------|
| INCHES | 0 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 10 | 11 | 10 | 15 | 20 | 21 | 22 | 20 | 2.1 | 20 | 20 |
| 1928-29 | | | | | | | | | | | | | (15. | | | | | | | | | | |
| 1929-30 | | | | | | | | | | | | | (15. | 13) | | | | | | | | | |
| 1930-31 | | | | | | | (9.2 | 27) | | | | (1/ | 1 5/1 | | | | | | | | | | |
| 1931-32 | | | | | | | | | /11 | 28) | | (14 | 1.54) | | | | | | | | | | |
| 1932-33 1933-34 | | | | | | | | | (11. | 20) | | | | | | | | | | | | | |
| 1934-35 | | | | | | | | | | | (] | 13.68 | 5) | | | | | | | | | | |
| 1935-36 | | | | | | | | | | | (13. | 37) | | | | | | | | | | | |
| 1936-37 | | | | | | | | | | | | |) | | | | | | | | | | |
| 1937-38 | | | | | | | | | | | | 7) | | | | | | | | | | | |
| 1938-39 | | | | | | | | | | | 00) | | | | | | | | | | | | |
| 1939-40 | | | | | | | | | (11. | .34) | | | | | | (18 | 17). | | | | | | |
| 1940-41 | | | | | | | | | | | | | - (15 | 491 |) | (10 | .11) | | | | | | |
| 1941-42 1942-43 | | | | | | | | | | (12 | 14) | | (10 | . 10 | , | | | | | | | | |
| 1943-44 | | | | | | | | | | | | | | | | (| 18.8 | 5) | | | | | |
| 1944-45 | | | | | | | | | | | | | (| 16.0 | 04) | | | | | | | | |
| 1945-46 | | | | | | | | | | | 35) | | | | | | | | | | | | |
| 1946-47 | | | | | | | | | | | | | | | | (| 18.8 | 3) | | | | | |
| 1947-48 | | | | | | | | | | | | (14 | .36) | /- | 10.0 | ٥) | | | | | | | |
| 1948-49 | | | | | | | | | | | | | - (15 | | | 3) | | | | | | | |
| 1949-50 | | | | | | | | | | | | | | .50, | , | | | | | | | | |
| 1950-51 1951-52 | | | | | | | | | | | | (14 | | | | | (19 | .29) | | | | | |
| 1951-52 | | | | | | | | | | | | | | | | | (| , | | | | | |
| 1953-54 | | | | | | | | | | | | | | | | | | | | | | | |
| 1954-55 | | | | | | | | | | | | | | | | | | | | | | | |
| 1955-56 | | | | | | | | | | | | | | | | | | | | | | | |
| 1956-57 | | | | | | | | | | | | | | | | (| 18.7 | 7) | | | | | |
| 1957-58 | | | | | | | | | | | | | 7.0.\ | | | | | | | | | | |
| 1958-59 | | | | | | | | | | | | (14. | 12) | | | | | | | | | | |
| 1959-60 | | | | | | | | | - /1 | 1 /12 |) | | | | | | | | | | | | |
| 1960-61 1961-62 | | | | | | | | | (1. | 1.30 | , | | | (| (16.) | 88) | | | | | | | |
| 1962-63 | | | | | | | | | | | | | | | | , | | | | | | | |
| 1963-64 | | | | | | | | | | | | | - (15 | .58) |) | | | | | | | | |
| 1964-65 | | | | | | | | | | | | | | | | | | (| 20.79 | 9) | | | |
| 1965-66 | | | | | | | - (9 | .53) | | | | | | /10 | 05) | | | | | | | | |
| 1966-67 | | | | | | | | | | | | | | (16 | .35) | | 10 0 | 1) | | | | | |
| 1967-68 | | | | | | | | | | | | | | | | | 10.0 | *) | | | | | |
| 1968-69 1969-70 | | | | | | | | | | | | | | | | | 6) | | | | | | |
| 1970-71 | | | | | | | | | | | | | | | | | (| 19.80 | 6) | | | | |
| 1971-72 | | | | | | | | | | | | (14. | 03) | | | | | | | | | | |
| 1972-73 | | | | | | | | | | | | | | | | | | | | (22 | .26) | | |
| 1973-74 | | | | | | | | | | | | | (1 | | | P F 4 | ` | | | | | | |
| 1974-75 | | | | | | | | | | | | | | | | 7.54 |) | | | | | | |
| 1975-76 | | | | | | | | | | | | | (14.9 | | .31) | | | | | | | | |
| 1976-77 1977-78 | | | | | | | | | | | | | (14.0 | | | | (19 | .23) | | | | | |
| 1978-79 | | | | | | | | | | | | | | | | | (20 | | | | | | |
| 1979-80 | | | | | | | | | | | | | | (| 16.7 | 3) | | | | | | | |
| 1980-81 | | | | | | | | | | | (13. | 04) | | | | | | | | | | | |
| 1981-82- | | | | | | | | | | | | | | | | | | | | | | -(25 | (.15) |
| 1982-83 | | | | | | | | | | | | | | | | | | - (2 | 0.58 |) | | | |
| 1983-84 | | | | | | | | | | | | | | | | | | | | | (2 | 23.82 | 2) |
| 1984-85 | | | | | | | | | | | | | | | | | | | | | /01 | 2 40 | |
| 1985-86 | | | | | | | | | | | | | | | | | | | | | - (2: | 3.40 | |
| 1986-87 | | | | | | | | | | 1) | | | | | | | | | | | | | |
| 1987-88 | | | | | | | | (3.9 | +) | | | | | | | | | | | | | | |

NORMAL#; ANNUAL TOTAL; AND MAXIMUM AND MINIMUM ANNUAL TOTAL BY CALENDAR YEAR 1929 - 1988

| 1 | Maximum | Annua | al I | Precipit | a | tion | 1 | | 1 | Minimu | ım | Annua | al | Precipit | a | tion | 1 |
|---|----------|-------|------|----------|---|------|---|--------|---|--------|----|-------|-----|----------|---|------|---|
| ! | Amount : | Year | | Amount | | Year | 1 | | ! | Amount | 1 | Year | 1 1 | Amount | 1 | Year | 1 |
| ! | 24.26 | 1983 | 1 1 | 19.87 | ; | 1970 | ! | | ; | 8.70 | 1 | 1979 | !! | 10.11 | 1 | 1933 | 1 |
| 1 | 22.86 | 1982 | !! | 19.40 | ; | 1986 | 1 | NORMAL | 1 | 8.99 | ! | 1966 | 1 1 | 10.34 | 1 | 1935 | 1 |
| ! | 21.55 ! | 1984 | !! | 18.79 | ! | 1941 | ! | 15.31 | ; | 9.29 | 1 | 1988 | 1 ! | 10.72 | 1 | 1958 | 1 |
| ! | 21.11 : | 1968 | ; ; | 18.49 | ! | 1944 | ; | | ; | 9.36 | ! | 1939 | !! | 10.90 | 1 | 1943 | 1 |
| ! | 20.39 | 1973 | 1 1 | 18.44 | 1 | 1957 | 1 | | ! | 9.42 | 1 | 1931 | 1 ! | 11.44 | 1 | 1934 | 1 |

#Climatiological normals (1951 - 1980)

TABLE 30*

THE AVERAGE TIME INTERVAL (RETURN PERIOD) BETWEEN THE OCCURRENCE OF THE LISTED PRECIPITATION AMOUNTS AND THAT OF AN EQUAL OR GREATER AMOUNT 1929 - 1970#

| Return | 1 | | | |] | Duration | 1 | of Prec: | ipi | tation | | | | |
|---------|-----|-------|---|--------|---|----------|-----|----------|-----|--------|-----|-------|---|--------|
| Period | 1 | 5 Min | ; | 10 Min | 1 | 15 Min | ; | 30 Min | 1 | 1 Hr | 1 | 2 Hrs | 1 | 24 Hrs |
| (Years) | ! | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1 | ! | .03 | 1 | .06 | 1 | .08 | 1 | .13 | 1 3 | .19 | 1 | .28 | 1 | .65 |
| 2 | 1 | .15 | ! | .24 | ; | .29 | ; | .36 | 1 | .45 | ! | .58 | ! | 1.34 |
| 5 | t s | .24 | 1 | .40 | 1 | .48 | 1 | . 62 | 1 | .74 | - 1 | .89 | 1 | 1.79 |
| 10 | ; | .30 | ; | .52 | ; | .64 | ; | . 85 | 1 | 1.02 | 1 1 | 1.17 | ; | 2.10 |
| 50 | ! | .43 | ! | .81 | 1 | 1.12 | 1 3 | 1.63 | 1 | 1.93 | ! | 2.02 | 1 | 2.81 |
| 100 | 1 | .48 | ! | . 95 | 1 | 1.38 | ! | 2.09 | 1 | 2.49 | 1 | 2.51 | ; | 3.13 |

*This table, for example, states that the average time interval is 100 years before 0.48 inches of rain or more falls at the Salt Lake Airport in a 5 minute period, or 0.95 inches or more in a 10 minute period, or 1.38 inches or more in a 15 minute period, etc. In another example, the table also states that about once in every 10 years it is possible for 0.30 inches or more of precipitation to fall at the Salt Lake Airport in 5 minutes, 0.52 inches or more in 10 minutes, or 0.64 inches or more in 15 minutes, etc.

#This table was compiled using hourly data and Pearsons distribution system by Mr. A.L. Zimmerman, former Hydrologist in Charge of the Colorado Basin River Forecast Center.

PRECIPITATION DATA:

TABLE 31

| | 2.1 | NORM TO DATE | | | 14.00 | 1. | 0, 1, 18 | 1 | 0. 11. 26 | 1 | 1/1 | 04 14.38 | | | | 14. | 1 | | | 14. | # | | 1 | 7 | 15. | 05 15.07 | 04 12e11 | | ·04 15 · 19 | 04 15.23 | 04 15027 | 04 15,31 | 1.37 | 3.73 |
|---------------|-------|-----------------|----------|----------|----------|-------|----------|-------|-----------|-------|----------|----------|-------|-------|----------|----------|-----------|-------|----------|-------|----------|----------|----------|----------|----------|----------|----------|-------|-------------|----------|------------|-----------|----------|------------------|
| Ī | HHH | NORM TO N | 12.76 | 14.80 | 04 12 84 | | 12 04 | 12.00 | _ | 200 | 12 | 13.16 | 13,20 | 24 | 13,28 | 13,32 | 13.36 | 13.40 | 13.44 | 13.48 | 13.52 | 13.50 | 13,60 | 13.64 | 13.68 | 13.72 | 13.0 | 13 | 130 | H 1 | •05 13•94 | | 1,22 | 2,36 |
| I | T | NORM TO IN | 11.61 | 11.04 | 03 11.67 | 11000 | 03 110/3 | 11 70 | 32 | 11 95 | 11 88 | 11.92 | 11.96 | 12,00 | 12,04 | 12,08 | 12,12 | 12,16 | | 12 | 12,28 | 14.32 | 12,36 | 12.40 | 12.44 | 12 | 17 | 12 | 12,60 | 12.64 | | •04 12,72 | 1.14 | 1,14 |
| | MBER | NORM TO INDATE | 10.72 | 10.75 | 10.78 | 1 | 03 10 84 | 1 | 1000 | 10 04 | _ | 11.01 | 11.04 | 11,07 | 11,10 | | 03 11.16 | 11 | 17 | 11 | | 11 | 11 | H | 11 | 11 | 7 | 11 | 03 11.52 | 11. | •03 11 ·58 | | 0.89 | 15.31 |
| 1951 - | ST | NORM TO N | 9.79 | 808 | 03 9 85 | 7,000 | _ | 47.00 | 3000 | 300 | 2007 | 10.09 | 10,12 | 10,15 | 10,18 | 10,21 | .03 10°24 | | | 10.33 | 10,36 | 10,39 | 10.42 | 10.45 | 10.48 | | 10.54 | 10.57 | 10,60 | 10 | | •03 10•69 | 0.92 | 14.42 |
| PRECIPITATION | | NORM TO DATE | - | | 03 9.14 | 3 | 03 9 20 | 7 | | Ma | 02 2 20 | 40 | | 6 | 6 | 0 | | 6 | 9 | 0 | °02 9°50 | | °02 9°54 | 9. | 90 | 6 | 6 | 6 | 8 | | 1 | e03 9e77 | 0.72 | 13.50 |
| NORMALS OF | 田 | NORM TO DATE | 1 . | | | | 20 1 | DIO | o t | | 203 8044 | 03 8 L.R | | 1 | | 1 | | | - 1 | | .03 8.75 | | .03 8.81 | 100 | .03 8.87 | | e03 8e93 | 00 | | 0 | •03 9•05 | - | 0.97 | 12.78 |
| DAILY NO | MAY | NORM TO DATE | 100 | •06 6•73 | 0 | 0 | 9 | 0 | - 2 | 92 | 002 7013 | 05 7 23 | 2 | 5 2 | .05 7.38 | e05 7.43 | 84.7 50. | 4 7 | 1 7 | 1 7 | .04 7.64 | 4 70 | 004 7°72 | 2 | .04 7.80 | 7 | 4 70 | 7. | 4 70 | 4 | 8 7 | \$0°8 70° | 1.47 | 11,81 |
| | | NORM TO DATE | 1- | - 1 | _ | - 1 | •07 4•75 | 1 | | 1 | 2000 | 08 5 20 | | | | .08 5.52 | | 1 | •08 5.76 | 3 | m | | 9009 600 | | 07 6.20 | 007 6.27 | - 1 | | ~ | 007 6.55 | 000 6061 | | 2,21 | 10.34 |
| | MARCH | NORM TO | a. | .05 2.78 | .05 2.83 | | .05 2.93 | | 3 | | 05 3°13 | 05 3 23 | | 4 | .05 3.38 | | | | •06 3.59 | | •06 3.71 | | .06 3.83 | | | | 00° 4°07 | | •06 4.19 | | | 0404 600 | 1.72 | 8,13 |
| | 1. 3 | NORM TO | .04 1.39 | ,04 1,43 | - | .1 | .04 1.55 | | .04 I.63 | - 1 | 05 1.73 | 05 1 83 | | | .05 1.98 | 1 | | 1 | .05 2.18 | | | .05 2.33 | .05 2.38 | | .05 2.48 | | .05 2.58 | | | | | | 1.33 | 6.41 |
| | | NORM TO | | .05 0°10 | 1 | | •04 0•22 | - 1 | | - 1 | 00, 0.38 | 200 000 | | | | | 99.0 70. | 1 . | | | | 98.0 70. | 06.0 40. | •05 0.95 | .05 1.00 | 1 | .05 1.10 | - | | | H | | HLY 1.35 | R YEAR ALS* 5.08 |
| | | | | N | 3 | 4 | N. | 9 | 2 | 8 | 6 | 2 - | 10 | 13 | 17 | 15 | 16 | 17 | 18 | 19 | 50 | 21 | 22 | 23 | 21, | 25 | 56 | 27 | 23 | 53 | 30 | 31 | MONTHLY | WATTER |

*Totaled on a 12 month period that begins October 1 and ends September 30.

TABLE 32
NORMAL#; AND MAXIMUM AND MINIMUM MONTHLY PRECIPITATION TOTALS
May 1928 - December 1988

| Month | | | | Monthly | Month | | Monthly | | |
|----------|--------|---------|-----------|-------------|-----------|----------|---------|------------|----------------|
| | | itation | | itation | 1 | Precip | itation | | <u>itation</u> |
| | Amount | ! Year | ! Amount | ! Year | ! L | ! Amount | Year | Amount | Year_ |
| JANUARY | 3.14 | 1940 | 1 .09 | 1961 | JULY | 2.57 | 1982 |]* | 1963 |
| Normal# | 2.87 | 1980 | 1 .17 | 1935 | Normal# | 2.52 | 1962 | .01 | 1947 |
| Monthly | 2.73 | 1953 | 1 .34 | 1948 | Monthly | 2.17 | 1951 | .02 | 1960 |
| Total | 2.39 | 1956 | 1 .39 | 1945 | Total | 1.92 | 1945 | .04 | 19884 |
| 1.35 | 2.33 | 1978 | .41 | 1966 | 0.72 | 1.72 | 1984 | .05 | 1958 |
| FEBRUARY | 3.22 | 1936 | 1 .12 | 1946 | AUGUST | 3.66 | 1968 | T* | 1944 |
| Normal# | 2.84 | 1969 | 1 .13 | 1 1988 | Normal# | 3.28 | 1945 | .03 | 19854 |
| Monthly | 2.32 | 1968 | .27 | 1931 | Monthly | 3.06 | 1930 | .07 | 1967 |
| Total | 2.25 | 1980 | .35 | 1964 | Total | 2.94 | 1932 | .10 | 1975 |
| 1.33 | 2.20 | 1958 | .39 | 1953 | 0.92 | 2.64 | 1983 | .14 | 1939 |
| MARCH | 3.97 | 1983 | 1 .10 | 1956 | SEPTEMBER | 1 7.04 | 1982 | Ţ * | 1951+ |
| Normal# | 3.67 | 1944 | 1 .14 | 1965 | Normal# | 4.07 | 1973 | .02 | 1952 |
| Monthly | 3.56 | 1952 | 1 .20 | 1955 | Monthly | 2.80 | 1970 | .03 | 1974 |
| Total | 3.47 | 1978 | 4.48 | 1934 | Total | 2.75 | 1986 | .05 | 1987+ |
| 1.72 | 3.44 | 1975 | 1 .57 | 1969 | 0.89 | 2.51 | 1978 | .06 | 1932 |
| APRIL | 4.90 | 1944 | 1 .45 | 1981+ | OCTOBER | 3.91 | 1981 | 0 | 1952 |
| Normal# | 4.57 | 1974 | 1 .59 | 1977 | Normal# | 3.70 | 1984 | | 1978+ |
| Monthly | 4.55 | 1986 | 1 .64 | 1985 | Monthly | 3.61 | 1946 | .01 | 1988 |
| Total | 4.43 | 1984 | 1 .65 | 1954 | Total | 3.23 | 1971 | .17 | 1935 |
| 2.21 | 3.86 | 1963 | .79 | 1987 | 1.14 | 2.79 | 1949 | .18 | 1944 |
| MAY | 4.76 | 1977 | i ! T* | i 1934 | NOVEMBER | 2.63 | 1985 | .01 | 1939 |
| Normal# | 3.68 | 1981 | 1 .01 | 1940 | Normal# | 2.57 | 1934 | .03 | 1976 |
| Monthly | 3.39 | 1986 | 1 .14 | 1972 | Monthly | 2.52 | 1973 | .05 | 1943 |
| Total | 3.37 | 1957 | 1 .18 | 1969 | Total | 2.30 | 1945 | .10 | 1959 |
| 1.47 | 3.16 | 1942 | .19 | 1929 | 1.22 | 2.27 | 1970 | .13 | 1929 |
| JUNE | 2.93 | 1947 | 1 .01 | 1946+ | DECEMBER | 4.37 | 1983 | .08 | 1976 |
| Normal# | 2.83 | 1969 | .03 | 1988 | Normal# | 3.82 | 1964 | .10 | 1986 |
| Monthly | 2.78 | 1944 | 1 .04 | 1958 | Monthly | 3.22 | 1972 | .28 | 1962 |
| Total | 2.73 | 1967+ | 1 .06 | 1978+ | Total | 2.90 | 1951 | . 37 | 1980 |
| 0.97 | 2.61 | 1964 | .07 | 1966 | 1.37 | 2.80 | 1970 | .39 | 1960 |
| | 1 | ! | 1 | 1 | ! | ! | 1 | | I |

TABLE 33
NORMAL# AND MAXIMUM AND MINIMUM SEASONAL% PRECIPITATION

| 1 | Maximum Seasonal | Precipitation | 1 | | 1 | Minimum Seas | onal | Precipitation |
|---|------------------|---------------|---|--------|---|--------------|------|---------------|
| ! | Total | Year | 1 | | 1 | Total | 1 | Year |
| 1 | 25.15 | 1981-82 | 1 | | 1 | 8.16 | 1 | 1933-34 |
| | 23.82 | 1983-84 | ; | NORMAL | 1 | 8.19 | 1 | 1978-79 |
| | 23.40 | 1985-86 | ; | | 1 | 9.27 | 1 | 1930-31 |
| | 22.26 | 1972-73 | 1 | 15.31 | 1 | 9.53 | 1 | 1965-66 |
| | 20.79 | 1964-65 | 1 | | 1 | 9.94 | 1 | 1987-88 |
| | 20.58 | 1982-83 | 1 | | 1 | 10.43 | 1 | 1959-60 |
| 1 | 19.86 | 1970-71 | 1 | | 1 | 10.71 | ! | 1986-87 |

#Normal based on the period 1951-1980. 15.23 based on the period 1928-1988. %Water year is based on precipitation totaled for a 12 month period that begins October 1 and ends September 30.

⁺Also occurred in earlier years.

^{*}T is a trace too small to measure

20 DECEMBER MAY FIGURE 6
RAINFALL CHART
PROBABILITY OF RAIN (BY PERCENTAGE) ON ANY GIVEN DAY, BASED ON SALT LAKE CITY
AIRPORT RECORDS WHICH SHOW PRECIPITATION OF .01 INCHES OR WORE FROM
JANUARY 1929 December 1988 M OCTOBER APRIL 40% 35% 15% 10% 30% 25% 200 15% 10% MARCH SAMUARY SIE 35% 55% 50% 458 40% 30% 25% 30% 35% 30% 200% 15% 10% 20% 40% 15% 05%

TABLE 34a

GREATEST 24-HOUR PRECIPITATION (INCHES)
(Midnight to Midnight)
May 1928 - April 1988

| 1 | JANUA | R | Y : | FEBRU | IAI | RY : | MARC | | APRI | | , |
|-----|----------|--|--|--|---|--|--|---|---|--|--|
| 1 (| Greatest | 1 | Year : | Greatest | 1 | Year ! | Greatest | Year ! | Greatest | 1 | Year |
| | | 1 | of : | 24 - Hr | 1 | of ! | 24 - Hr | of ! | 24 - Hr | 1 | of |
| 1 | | ! | Event: | | 1 | Event! | Pcpn | : Event: | Pcpn | 1 | Event |
| 1 | | ! | | .19 | ; | 1970 : | .59 | 1977 | . 95 | , | 1984 |
| 1 | | 1 | | .89 | ! | 1936 | 1.11 | 1941 : | 1.57 | 1 | 1986 |
| ! | | ! | The state of the s | .40 | ; | 1945 | .66 | 1938 | .43 | 1 | 1983 |
| ! | | 1 | | | ! | 1976 : | . 63 | 1938 | .67 | 1 | 1947 |
| 1 | | ! | | | ; | 1974 : | .55 | 1978 | .76 | 1 | 1941 |
| ! | | ! | ! | | 1 | ŧ, | | 1 1 | | 1 | ! |
| ! | .41 | 1 | 1944 : | .81 | ! | 1969 | .48 | 1930 | .62 | 1 | 1929 |
| ! | | ! | | | 1 | 1950 : | .50 | 1960 | .58 | 1 | 1946 |
| ! | | ! | | A STATE OF THE PARTY OF THE PAR | ! | 1959 : | .59 | 1986 | . 94 | 1 | 1949 |
| ! | | ! | | | ! | | the same of the sa | 1987 | 1.19 | 1 | 1974 |
| ! | | 1 | | | 1 | | . 65 | 1952 | 1.54 | 1 | 1974 |
| ! | | ! | 1 | | 1 | ! | | !!! | | 1 | |
| ! | .26 | 1 | 1965 : | .22 | ; | 1949 : | .69 | 1952 | .27 | 1 | 1970 |
| ! | | 1 | | | 1 | 1952 : | .47 | 1 1944 1 | . 65 | 1 | 1944 |
| ! | | ! | | | ! | 1970 : | 1.56 | 1944 | .98 | 1 | 1972 |
| ! | | ! | | | 1 | 1987 | | 1960+ | 1.01 | 1 | 1952 |
| 1 | | ! | | | ! | | .92 | 1963 | .51 | 1 | 1969 |
| 1 | | 1 | ! | | 1 | ! | | 1 1 | | 1 | 1 |
| ! | .56 | 1 | 1956 | .44 | 1 | 1969 : | .53 | 1 1975 | 1.12 | 1 | 1941 |
| ! | | Į. | | | 1 | 1955 | .61 | 1968 | . 89 | 1 | 1953 |
| ! | | 1 | | | ! | 1954 : | .43 | 1 1937 | 1.07 | 1 | 1959 |
| | | ! | | | 1 | | .68 | 1983 | . 95 | 1 | 1984 |
| ! | | ! | | | 1 | | .69 | 1 1946 | .90 | 1 | 1932 |
| ! | | 1 | 1 | | 1 | 1 | | 1 1 | | 1 | |
| ! | .53 | ! | 1953 : | . 45 | ! | 1979 : | .71 | 1980 | .56 | 1 | 1962 |
| ! | | ! | | | ! | | | 1964 | 1.00 | 1 | 1957 |
| ! | | 1 | | | ! | | | 1 1949 | 1.46 | 1 | 1958 |
| ! | | 1 | | | 1 | | | 1952 | .70 | ! | 1945 |
| ! | | ! | | | ! | the second secon | | | 1.62 | 1 | 1976 |
| ! | | ! | 1 | | ! | 1 | | ! | | 1 | |
| : | .44 | ! | 1969 | .51 | ! | 1981 | .55 | 1981 | .69 | ! | 1962 |
| ; | | ! | | | 1 | | | 1 1940 | .48 | ! | 1963 |
| ! | | ! | | | ! | | | 1 1963 | .62 | 1 | 1970 |
| 1 | | ! | | | ! | | | | | ! | 1967 |
| ! | | 1 | | | ! | 1 | | | | ; | 1953 |
| ! | | ! | 1 | | 1 | | | ! | | ! | |
| ! | .48 | ! | 1939 | | ! | | .78 | 1936 | | 1 | |
| ! | . 10 | ! | 1000 1 | | ! | | | 1 | | 1 | |
| ! | | 1 | 14/ ! | | ! | 25/ ! | | 1 12/ | | 1 | 25/ |
| 1 | 1.36 | , | | . 90 | ! | | 1.56 | | 1.62 | 1 | 1976 |
| | | Greatest 24 - Hr Pepn .20 .75 .45 .27 .81 .41 .32 .56 .35 .26 .35 .26 .43 .28 .136 .39 .56 .36 .54 .36 .56 .54 .56 .54 .46 .56 .54 .46 .45 .46 .45 .45 .48 | Greatest 24 - Hr Pcpn .20 .75 .45 .45 .27 .81 .41 .32 .56 .35 .26 .43 .28 .136 .39 .56 .36 .39 .56 .54 .36 .56 .54 .36 .56 .54 .36 .56 .54 .46 .56 .54 .46 .45 .46 .45 .46 .45 .46 .45 .48 | Greatest Year 24 - Hr of Pcpn Event .20 1940 .75 1940 .45 1940 .27 1978 .81 1987 .41 1944 .32 1974+ .56 1950 .26 1968 .43 1932 .28 1971+ 1.36 1953 .39 1956 .43 1978 .36 1951 .54 1978 .56 1962 .54 1978 .56 1962 .54 1978 .56 1951 .56 1951 .51 .52 1967 .54 1934 .46 1959 .44 1969 .61 1956 .45 1965 .45 .45 1965 .4 | Greatest Year Greatest 24 - Hr of 24 - Hr Pcpn Event Pcpn 1940 .19 .20 1940 .40 .40 .45 1940 .40 .47 .41 1944 .81 .32 1974+ .32 .56 1975 .65 .35 1950 .41 .26 1968 .36 .26 1968 .36 .22 .43 1932 .64 .28 1971+ .60 .43 .39 1956 .55 .55 .56 1978 .49 .36 1951 .75 .61 1973 .38 .56 1962 .45 .45 .54 .49 .54 .45 .45 .45 .45 .45 .45 .45 .46 .49 .54 .49 .55 .46 .41 .45 .496 .51 .46 .41 .45 .496 .51 .46 .41 .45 .496 .51 .46 .41 .45 .496 .41 .46 .40 | Greatest Year Greatest 24 - Hr of 24 - Hr | Greatest Year Greatest Year 24 - Hr of 24 - Hr of 24 - Hr of Pcpn Event Pcpn Event Pcpn Event .20 1940 .19 1970 .75 1940 .89 1936 .45 1940 .40 1945 .27 1978 .44 1976 .81 1987 .47 1974 .41 1944 .81 1969 .32 1974+ .32 1950 .35 1950 .41 1976 .26 1968 .36 1947 .26 1968 .36 1947 .26 1968 .36 1947 .28 1971+ .60 1970 .136 1953 .54 1987 .39 1956 .55 1936 .55 1936 .54 1987 .39 1956 .55 1936 .54 1979 .36 1951 .75 1954 .56 1953 .41 1969 .51 1950 .54 1979 .56 1955 .36 1951 .75 1954 .56 1956 .44 1969 .54 1973 .38 1974 .56 1962 .45 1930 .54 1930 .54 1951 .38 1948 .52 1967 .72 1930 .54 1934 .55 1943 .46 1959 .90 1969 .51 1981 .44 1969 .51 1981 .45 1956 .41 1947 .45 1965 .30 1930 .49 1980 .16 1940 .16 1958 .48 1939 .44 .44 1969 .51 1940 .48 1939 .44 .44 1969 .55 .44 1940 .45 1965 .30 1930 .49 1980 .16 1940 .48 1939 .48 .49 1980 .16 1940 .48 1939 .44 | Greatest Year Greatest Year Greatest 24 - Hr of 24 - Hr of 24 - Hr of 24 - Hr | Greatest Year Greatest Year Greatest Year 24 - Hr of Pepn Event Pepn Pepn | Greatest Year Greatest Year Greatest 24 - Hr of 25 - Hr of 24 - Hr of 24 - Hr of 25 - Hr of 24 - Hr of 25 - Hr of 24 - Hr of 25 - Hr of 24 - Hr of 24 - Hr of 25 - Hr of 25 - Hr of 24 - Hr of 25 | Greatest Year Greatest Year Greatest Z4 - Hr of Z4 |

⁺ Also occurred in earlier years.

TABLE 34b

GREATEST 24-HOUR PRECIPITATION (INCHES)

(Midnight to Midnight) May 1928 - August 1988

| 1 ! | MAY | , | 1 | JUN | VE. | 1 | JULY | j. | AUGUS' | Г |
|--------|----------|---|--------|----------|-----|--------|----------|--------|----------|--------|
| 1 1 | Greatest | ; | Year ! | Greatest | 1 | Year ! | Greatest | Year ! | Greatest | Year |
| DAY : | 24 - Hr | 1 | of ! | 24 - Hr | 1 | of : | 24 - Hr | of | 24 - Hr | of |
| ! ! | Pepn | ; | Event! | Pcpn | ; | Event: | Pcpn | Event | Pcpn | Event |
| : 1: | .57 | - | 1987 | .86 | 1 | 1943 | | 1980 | . 28 | 1960 |
| 1 2 : | .82 | 1 | 1938 : | .77 | ! | 1944 : | .24 | 1949 | 1.72 | 1930 |
| 1 3 1 | .54 | ! | 1950 : | .58 | 1 | 1944 | .05 | 1980 | 1.22 | 1945 |
| : 4: | .59 | ! | 1975 : | . 45 | ! | 1984 | .46 | 1961 | 1.62 | 1954 |
| 1 5 1 | 1.12 | ! | 1965 | .80 | 1 | 1954 | .41 | 1982 | .48 | 1977 |
| ; ; | | 1 | - ! | | ! | 1 | | | | 1 |
| 6 1 | .58 | ! | 1986 : | .43 | ! | 1932 | .52 | 1937 | .40 | 1946 |
| ; 7; | .57 | ! | 1933 : | .94 | ! | 1964 | . 25 | 1984 | .16 | 1979 |
| 1 8 1 | 1.03 | ! | 1986 | . 94 | 1 | 1968 | .27 | 1980 | . 94 | 1968 |
| 1 9 1 | .76 | ! | 1980 : | .98 | 1 | 1970 | .52 | 1950 | .37 | 1930 |
| 10 : | 1.03 | 1 | 1985 | .78 | ! | 1945 | .46 | 1936 | .69 | : 1947 |
| 1 1 | | 1 | ! | | 1 | ! | | | | 1 |
| : 11 : | 1.20 | ! | 1983 | 1.36 | ! | 1947 | .29 | 1930 | . 26 | 1959 |
| 1 12 1 | .64 | ! | 1956 | .71 | ! | 1967 | .07 | 1962+ | .50 | 1930 |
| 1 13 | 1.03 | ! | 1957 | .43 | ! | 1976 | 2.28 | 1962 | .72 | 1978 |
| 14: | .69 | ! | 1977 : | .31 | 1 | 1955 | .18 | 1959 | . 85 | 1968 |
| 1 15 : | .76 | ! | 1981 | .53 | ! | 1956 | .14 | 1942 | .54 | 1961 |
| 1 1 | •10 | ! | 1 | | 1 | 1 | | 1 | | 1 |
| 1 16 1 | 1.55 | T | 1942 : | .43 | ! | 1957 | .94 | 1967 | .38 | 1984 |
| 17 : | .86 | ! | 1944 | .62 | ! | 1964 | . 69 | 1976 | .70 | 1983 |
| 1 18 : | 1.00 | ! | 1977 : | .32 | ! | 1975 | .47 | 1965 | .90 | 1983 |
| 1 19 : | 1.08 | ! | 1957 | .41 | ! | 1975 | . 90 | 1971 : | 1.42 | 1945 |
| : 20 : | 1.00 | 1 | 1949 | .40 | ! | 1967 | .24 | 1954 | .97 | 1 1986 |
| 1 1 | 1.00 | ! | ! | | ! | 1 | | 1 | | ! |
| : 21 : | .67 | ! | 1981 | 1.75 | ! | 1948 | .59 | 1987+ | 1.05 | 1965 |
| 22 : | .55 | ! | 1976 | .25 | ! | 1948 | .30 | 1979 | 1.04 | 1960 |
| 23 1 | .53 | 1 | 1968 | .27 | ! | 1967 | .16 | 1986 | . 45 | 1976 |
| 24 : | .25 | ! | 1968 | 1.08 | ! | 1969 | .75 | 1955 | .30 | 1949 |
| : 25 : | 1.27 | ! | 1973 | .36 | 1 | 1969 | .23 | 1965 | .16 | 1984 |
| 1 1 | | ! | 1 | | ! | | | | | ! |
| : 26 : | .59 | 1 | 1977 | .42 | ! | 1965 | .53 | 1941 | 1.96 | 1932 |
| : 27 : | | ; | 1959 | .42 | 1 | 1959 | .57 | 1951 | .32 | 1932 |
| : 28 : | | ! | 1935 | .39 | ! | 1959 | 1.25 | 1982 | .51 | 1971 |
| 29 1 | .63 | ; | 1946 | .22 | ! | 1971 | 1.36 | 1969 | .91 | 1958 |
| 1 30 1 | .80 | ! | 1937 | .11 | ! | 1940 | 1.65 | 1945 | .15 | 1963 |
| 1 1 | | 1 | ! | | 1 | | | ! | | 1 |
| 31 : | .56 | ! | 1947 | | 1 | | .75 | 1952 | .32 | 1963 |
| !!! | | ! | 1 | | 1 | | | !!! | | ! |
| 1 1 | | ! | 16/ : | | 1 | 21/ | | 13/ 1 | | 26/ |
| Mnth | 1.55 | 1 | 1942 | 1.75 | ! | 1948 | 2.28 | 1962 | 1.96 | 1932 |

⁺ Also occurred in earlier years.

TABLE 34c

GREATEST 24-HOUR PRECIPITATION (INCHES)

(Midnight to Midnight) May 1928 - December 1988

| : : | SEPTE | MB: | ER ! | OCTOR | BE | R : | NOVEMB | ER | 1 | DECEMB | E | 3 : |
|--------|----------|-----|--------|---|----|--------|----------|---------|---|----------|---|--------|
| 1 1 | Greatest | ! | Year ! | Greatest | 1 | Year ! | Greatest | Year | 1 | Greatest | 1 | Year ! |
| DAY : | | 1 | of ! | 24 - Hr | 1 | of | 24 - Hr | of | 1 | 24 - Hr | 1 | of : |
| !!! | Pcpn | 1 | Event! | Pcpn | ! | Event: | Pcpn | Event | 1 | Pcpn | 1 | Event: |
| : 1 : | 1.37 | ! | 1973 : | .39 | ! | 1983 : | .88 | 1 1936 | 1 | .74 | ! | 1982 |
| : 2 : | .20 | ! | 1973 : | .47 | ! | 1976 : | .48 | : 1938+ | ! | .73 | ! | 1942 |
| 1 3 1 | .73 | ! | 1929 ; | 1.34 | : | 1951 : | .4- | : 1988 | 1 | .63 | ! | 1938 |
| ; 4; | .33 | : | 1940 : | .44 | ! | 1939 : | . 45 | : 1940 | ! | .63 | 1 | 1948 |
| 1 5 1 | 2.19 | ! | 1970 : | 1.00 | 1 | 1944 : | .71 | : 1972 | 1 | .72 | 1 | 1956 |
| !!! | | ! | 1 | | ; | ; | | 1 | 1 | | 1 | 1 |
| : 6 | .81 | 1 | 1965 | .64 | ! | 1977 : | . 55 | : 1953 | - | .40 | 1 | 1951 |
| 7 | .49 | ! | 1939 | .67 | ! | 1975 : | .63 | 1970 | 1 | .74 | 1 | 1946 |
| 1 8 | .58 | - | 1973 | .50 | ! | 1981 | .47 | : 1966 | 1 | .91 | 1 | 1985 |
| 9 1 | .64 | 1 | 1986 | .46 | : | 1960 | .31 | : 1935 | 1 | .98 | ! | 1970 |
| 10 | 1.15 | , | 1982 | 1.05 | ! | 1947 | .82 | 1 1949 | 1 | . 35 | 1 | 1965 |
| 1 10 1 | 1.10 | + | 1002 | 1.00 | ! | 1011 | | ! | ! | | 1 | 1 |
| 111 | .86 | ! | 1985 | .57 | ! | 1984 | .66 | : 1985 | 1 | .79 | ; | 1968 |
| 1 12 | .17 | - | 1940 | .59 | ! | 1928 | .63 | : 1964 | 1 | .89 | ! | 1937 |
| 1 13 | .89 | 1 | 1982 | .84 | ! | 1966 | .43 | : 1983 | ! | .39 | 1 | 1974 |
| 114 | .66 | ! | 1977+ | .95 | ! | 1968 | .71 | 1 1955 | ! | .48 | 1 | 1983 |
| 1 15 | .23 | 1 | 1959 : | 1.06 | ! | 1937 | .93 | : 1952 | ! | .51 | 1 | 1934 |
| 1 10 | .20 | ! | 1000 1 | 1.00 | ! | ! | | ! | ! | | 1 | ! |
| : 16 | .31 | ! | 1965 : | .94 | ! | 1938 | 1.13 | : 1954 | ! | .77 | 1 | 1936 |
| : 17 | 1.38 | - | 1978 | .64 | ! | 1969 | .67 | 1 1930 | ! | .77 | 1 | 1970 : |
| : 18 | .82 | ! | 1947 : | 1.23 | ! | 1984 | 1.01 | : 1941 | - | .52 | 1 | 1977 : |
| 19 | .56 | ! | 1972 : | .65 | ! | 1979 | .50 | : 1977 | ! | .37 | ; | 1929 |
| 20 | .57 | ! | 1984 : | .67 | ! | 1949 | .41 | : 1941 | 1 | .45 | ! | 1967 |
| 1 20 | .01 | ! | 1001 | | ! | 1010 | | ! | ! | | ! | 1 |
| : 21 | .42 | ! | 1945 ; | .40 | ! | 1943 | .50 | 1 1955 | 1 | .34 | ! | 1979+ |
| 1 22 | .68 | 1 | 1977+; | .32 | ! | 1970 | .78 | : 1974 | 1 | .46 | 1 | 1951 |
| 1 23 | 1.09 | 1 | 1973 | .52 | ! | 1972 | .57 | 1 1946 | ! | 1.10 | ! | 1964 |
| : 24 | .41 | ! | 1930 : | .64 | : | 1956 | .44 | : 1951 | 1 | .53 | 1 | 1964 |
| : 25 | . 95 | ! | 1986 : | .40 | ! | 1941 | .52 | 1950 | ! | .56 | ! | 1959 |
| 1 | | 1 | 1 | | ! | | | ! | 1 | | 1 | 1 |
| : 26 | 2.27 | ! | 1982 | .90 | ! | 1982 | .49 | : 1973 | 1 | .57 | 1 | 1946 |
| : 27 | .84 | 1 | 1982 | . 65 | ! | 1971 | .84 | 1960 | ! | .58 | ! | 1948 |
| : 28 | .96 | 1 | 1982 | 1.08 | ! | 1946 | .31 | : 1975 | ! | 1.21 | ! | 1972 |
| 1 29 | .62 | 1 | 1950 | .86 | ! | 1981 | | 1975 | ! | .61 | ! | 1972 |
| 30 | 1.20 | ! | 1971 : | .45 | ! | 1968 | .56 | 1 1945 | ! | .30 | 1 | 1975+ |
| 1 | 1 1.20 | ! | 1011 | . 10 | ! | 1 | | ! | 1 | | 1 | |
| : 31 | 1 | 1 | ! | .77 | ! | 1971 | | ! | ! | .41 | ! | 1940 |
| 1 01 | 1 | 1 | 1 | • | ! | 2012 | | 1 | İ | | ! | |
| 1 | 1 | - 1 | 26/ 1 | | , | 3/ | | 16/ | ! | | ! | 28/ |
| Mnth | 2.27 | 1 | 1982 | 1.34 | 1 | 1951 | 1.13 | 1954 | , | 1.21 | ! | 1972 |
| millen | 6.41 | 1 | 1304 | 1.04 | 1 | TOOL | 1.10 | 1 1004 | 1 | 1.41 | - | 1012 |

⁺ Also occurred in earlier years.

| MONTH : | 5 1 | 10 ; | 15 ; | 30 ; | 1 | 2 | 3 1 | 24 |
|--|------------------------------|-------------------------------|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| 1,04111 | | | Minutes | | Hour | Hours | Hours ! | Hours |
| JANUARY #1943-88 | .06 8/1975 13/1971 | .10 13/1971 | .12 14/1980 8/1975 13/1971 | .22 | .39 14/1980 | .58 14/1980 | .78 14/1980 | 1.36 14/1953 |
| FEBRUARY #1942-88 | .13 6/1950 | .25 6/1950 | .26 6/1950 | .28 6/1950 | .31 6/1950 | .60 6/1969 | .64 6/1969 | 1.05 25-26 1958 |
| MARCH #1941-88 | .15 22/1975 | .17 22/1975 | .18 22/1975 | .22 22/1975 | .28 7/1960 | .47 7/1960 | .64 7-8 1960 | 1.83 13-14 1944 |
| APRIL #1942-88 | .11 28/1973 | .15 24/1951 30/1936 | .20 23/1965 | .33 23/1958 | .44 25/1976 23/1958 | | .95 23/19 5 8 | 2.41 22-23 1957 |
| MAY #1936-88 except 1938,40 | .30 26/1941 | .44 26/1941 | .47 26/1941 | .48 26/1941 | .48 26/1941 | .52 10/1946 | .71 19/1957 | 2.03 15-16 1942 |
| JUNE #1936-88 except 1940 | .26 24/1936 | .32 15/1956 | .36 24/1936 | .46 24/1936 | .48 21/1948 24/1936 | .63 21/1948 | .75 21/1948 | 1.88 21-22 1948 |
| JULY #1935-88 except 1936,39,40 | .50 13/1962 | .92 13/1962 | 1.26 13/1962 | 1.79 13/1962 | 1.94 13/1962 | 1.99 13/1962 | 1.99 13/1962 | 2.35 12-13 1962 |
| AUGUST #1935-88 except 1939,40 | .34 19/1945 | .52 4/1954 | .78 4/1954 | 1.08 | 1.31 4/1954 | 1.50 4/1954 | 1.53 4/1954 | 1.96 26/1932 |
| SEPTEMBER #1935-88 except 1939,40 | .35 14/1977 | .45 14/1977 | .57 14/1977 | .62 14/1977 | .63 14/1977 | .74 26/1982 | .97 26/1982 | 2.30 26-27 1982 |
| 0CT0BER #1935-88 except 1938-40 | .12 2/1976 7/1975 | | .25 10/1947 | .39 10/1947 | [] [| 1 1 1 | 1 | 1.76 17-18 1984 |
| NOVEMBER #1935-88 except 1938-40 | .10 17/1948 | .18 17/1948 | .19 17/1948 | .21 17/1948 | .33 15/1952 | .53 15/1952 | .59 12/1964 | 1.13 16/1954 |
| DECEMBER #1936-88 except 1938-41 | .08 23/1982 23/1964 | .10 23/1982 23/1964 | .13 5/1956 | .22 5/1956 | .30 23/1964 | .52 12/1937 | .66 12/1937 | 1.82 28-29 1972 |
| ANNUAL | .50 JULY 13/1962 | .92 JULY 13/1962 | 1.26 JULY 13/1962 | 1.79 JULY 13/1962 | 1.94 JULY 13/1962 | 1.99 JULY 13/1962 | 1.99 JULY 13/1962 | 2.41 APRIL 2 23/195 |

[#] Period of record. * Not confined to midnight-midnight.

AVERAGE NUMBER OF DAYS AND MOST NUMBER OF DAYS BY MONTHS WITH 0.01 INCH OR MORE, 0.10 INCH OR MORE, 0.50 INCH OR MORE, AND 1.00 INCH OR MORE PRECIPITATION (MIDNIGHT - MIDNIGHT)

May 1928 - December 1988

| Month | | | | | | More ! | | | | | Inch or | - |
|--------|------|-----------|-------|------|------|------------|------|--------|--------|------|---------|-------------|
| | | | | | | Year ! | | | Year ! | | ! Most | Year |
| | Days | Days | 1 1 | Days | Days | 1 1 | Days | ! Days | | Days | Days | 1 |
| JAN | 10 | 16 | 1978+ | 4 | 1 9 | 1952+ | * | 3 | 1953 | * | 1 1 | 1953 |
| FEB | 1 9 | 15 | 1939+ | 4 | 1 10 | 1940 | * | 1 3 | 1936 | 0 | 1 0 | i ! ! |
| MAR | 1 10 | ! ! 17 | 1975+ | 5 | 1 12 | 1983 | 1 | 1 3 | 1977+ | * | 1 1 | 1944 |
| APR | 1 10 | 16 | 1978+ | 5 | 1 12 | 1963+ | 1 | 1 5 | 1944 | * | 1 2 | 1974 |
| MAY | ! 8 | 17 | 1944 | 4 | 10 | 1981+ | 1 | 1 3 | 1986+ | * | 1 2 | 1957 |
| JUN | 1 5 | 17 | 1967 | 3 | 1 8 | 1969 | * | 1 2 | 1964+ | * | 1 1 | 1 1985 |
| JUL | ! 4 | 1 12 | 1936 | 2 | 6 | 1965 | * | 1 3 | 1951 | * | 1 1 | 1969 |
| AUG | 1 6 | 1 13 | 1945 | 2 | 1 7 | 1982 | * | 1 3 | 1971+ | * | 1 2 | 1945 |
| SEP | 1 5 | 1 15 | 1982 | 2 | 10 | 1982 | 1 | 1 5 | 1982 | * | 1 2 | 1982 |
| OCT | 1 6 | 1 13 | 1981+ | 4 | 12 | 1981 | 1 | 1 3 | 1984+ | * | 1 1 | 1984 |
| NOV | ! 8 | 1 17 | 1948 | 4 | 1 9 | 1985+ | 1 | 1 3 | 1955 | * | 1 1 | 1 1954 |
| DEC | 1 10 | 24 | 1983 | 5 | 1 14 | 1983 | * | 1 3 | 1964 | * | 1 1 | 1972 |
| Annual | 91 | 140 | 1983 | 43 | 1 71 | 1983 | 6 | 1 12 | 1977+ | 1 | 1 4 | 1 1957 |

- + Also occurred in earlier years
- * Average of less than 1/2 day

TABLE 37

GREATEST NUMBER OF CONSECUTIVE DAYS WITH A TRACE* OR MORE (15 OR MORE DAYS TABULATED)

May 1928 - December 1988

| ! | Days | 1 | | | Da | ates | | | 1 | Total Rainfall | 1 |
|---|------|---|-----|----|----|------|-----|------|---|----------------|---|
| ! | 24 | 1 | Nov | 17 | - | Dec | 10, | 1983 | 1 | 2.19 | 1 |
| 1 | 18 | 1 | Jan | 28 | _ | Feb | 14, | 1984 | 1 | 0.34 | ; |
| 1 | 17 | 1 | Dec | 15 | _ | Dec | 31, | 1968 | 1 | 1.13 | , |
| ! | 16 | 1 | Feb | 11 | | Feb | 26, | 1936 | 1 | 2.04 | 1 |
| ! | 16 | 1 | Apr | 17 | _ | May | 2, | 1951 | 1 | 2.62 | 1 |
| 1 | 16 | 1 | Feb | 8 | - | Feb | 23, | 1986 | ! | 0.80 | 1 |
| 1 | 15 | ! | Dec | 16 | _ | Dec | 30, | 1985 | 1 | 0.23 | 1 |
| 1 | 15 | 1 | Jan | 24 | _ | Feb | 7, | 1979 | 1 | 0.12 | 1 |
| - | 15 | 1 | Feb | 5 | _ | Feb | 19, | 1978 | 1 | 1.56 | 1 |
| 1 | 15 | ! | Jan | 19 | - | Feb | 2, | 1969 | 1 | 1.23 | 1 |
| 1 | 15 | 1 | Mar | 28 | _ | Apr | 11. | 1958 | 1 | 1.57 | 1 |

GREATEST NUMBER OF CONSECUTIVE DAYS WITH 0.01 INCH OR MORE (8 OR MORE DAYS TABULATED)

May 1928 - December 1988

| ; | Days | 1 | | | Da | ates | | | 1 | Total Rainfall | ! |
|-----|------|---|-----|----|----|------|-----|------|---|----------------|---|
| ! | 10 | 1 | Feb | 14 | _ | Feb | 23, | 1980 | 1 | 2.12 | 1 |
| ! | 9 | 1 | Dec | 19 | _ | Dec | 27, | 1983 | 1 | 1.78 | 1 |
| ! | 9 | ; | Dec | 19 | - | Dec | 27, | 1981 | ; | 1.34 | 1 |
| 1 | 9 | ! | May | 20 | _ | May | 28, | 1962 | 1 | 1.56 | 1 |
| ! | 9 | ; | Dec | 29 | _ | Jan | 6, | 1940 | 1 | 2.66 | 1 |
| 1 | 8 | 1 | Jun | 3 | _ | Jun | 10, | 1984 | 1 | 1.73 | ! |
| - ! | 8 | ; | Sep | 26 | _ | Oct | 3, | 1983 | 1 | 1.47 | 1 |
| ! | 8 | ; | Nov | 22 | - | Nov | 29, | 1977 | 1 | 0.41 | 1 |
| ! | 8 | 1 | Jan | 4 | - | Jan | 11, | 1975 | 1 | 0.98 | 1 |
| ! | 8 | 1 | Oct | 24 | - | Oct | 31, | 1971 | 1 | 2.10 | 1 |
| 1 | 8 | 1 | Feb | 17 | - | Feb | 24, | 1968 | 1 | 0.93 | ! |
| ! | 8 | ! | Mar | 27 | _ | Apr | 4, | 1958 | 1 | 0.87 | 1 |
| ! | 8 | 1 | May | 13 | - | May | 21, | 1949 | 1 | 2.27 | 1 |
| ! | 8 | 1 | Jan | 8 | - | Jan | 15, | 1949 | 1 | 0.86 | 1 |
| 1 | 8 | 1 | May | 5 | - | May | 12, | 1933 | 1 | 1.54 | ; |

TABLE 39

GREATEST NUMBER OF CONSECUTIVE DAYS WITH 0.10 INCH OR MORE (5 OR MORE DAYS TABULATED)

May 1928 - December 1988

| 1 | Days | 1 | | | Da | ates | | | 1 | Total Rainfall | 1 |
|---|------|---|-----|----|----|------|-----|------|---|----------------|---|
| 1 | 7 | 1 | Sep | 24 | _ | Sep | 30, | 1982 | 1 | 4.79 | 1 |
| 1 | 6 | 1 | May | 30 | _ | Jun | 3, | 1944 | 1 | 2.32 | 1 |
| ! | 5 | 1 | May | 14 | - | May | 18, | 1977 | 1 | 2.76 | 1 |
| ! | 5 | ; | Apr | 22 | - | Apr | 26, | 1971 | 1 | 1.32 | 1 |
| 1 | 5 | 1 | Apr | 26 | - | Apr | 30, | 1970 | 1 | 2.20 | 1 |
| 1 | 5 | 1 | Jun | 3 | _ | Jun | 7, | 1945 | 1 | 1.64 | 1 |
| 1 | 5 | 1 | Jun | 1 | - | Jun | 5, | 1940 | 1 | 0.98 | ! |
| 1 | 5 | 1 | May | 31 | _ | Jun | 4, | 1936 | ! | 1.24 | 1 |

TABLE 40

GREATEST NUMBER OF CONSECUTIVE DAYS WITH 0.25 INCH OR MORE (4 OR MORE DAYS TABULATED)

May 1928 - December 1988

| , | Days | 1 | | | Da | ates | | | 1 | Total Rainfall | 1 |
|---|------|---|-----|----|----|------|-----|------|---|----------------|---|
| ! | 5 | 1 | May | 14 | - | May | 18, | 1977 | 1 | 2.76 | ; |
| ! | 5 | 1 | Jun | 3 | - | Jun | 7, | 1945 | 1 | 1.64 | 1 |
| ! | 4 | 1 | May | 6 | _ | May | 9, | 1986 | ! | 2.55 | 1 |
| ; | 4 | 1 | Apr | 27 | _ | Apr | 30, | 1970 | 1 | 2.05 | ! |
| ! | 4 | 1 | | | | | | 1968 | ; | 1.62 | ! |
| ! | 4 | ! | Nov | 18 | _ | Nov | 21. | 1950 | ! | 1.18 | 1 |

*A trace means too small to measure.

GREATEST NUMBER OF CONSECUTIVE DAYS WITHOUT EVEN A TRACE
May 1928 - December 1988

| Sep | 12. | 1952 | _ | Nov | 12, | 1952. | | | | | | 62 | Days |
|-----|-----|------|---|-----|-----|-------|--|---|--|--|--|----|------|
| | | | | | | 1944. | | | | | | | |
| Sep | 20, | 1978 | - | Oct | 19, | 1978. | | | | | | 30 | Days |
| Jun | 18, | 1944 | _ | Jul | 16, | 1944. | | | | | | 29 | Days |
| Jan | 2, | 1961 | - | Jan | 30, | 1961. | | | | | | 29 | Days |
| Jun | 27, | 1931 | - | Jul | 24, | 1931. | | | | | | 28 | Days |
| 0ct | 3, | 1933 | _ | Oct | 30, | 1933. | | | | | | 28 | Days |
| Sep | 13, | 1942 | - | Oct | 9, | 1942. | | | | | | 27 | Days |
| Jun | 25, | 1963 | _ | Jul | 21, | 1963. | | | | | | 27 | Days |
| Jul | 30, | 1985 | _ | Aug | 25, | 1985. | | | | | | 27 | Days |
| May | 2, | 1934 | _ | May | 27, | 1934. | | | | | | 26 | Days |
| Nov | 7, | 1936 | _ | Dec | 2, | 1936. | | | | | | 26 | Days |
| Aug | 30, | 1943 | _ | Sep | 24, | 1943. | | | | | | 26 | Days |
| Aug | 12, | 1950 | _ | Sep | 6, | 1950. | | | | | | 26 | Days |
| | | | | | | 1962. | | | | | | | |
| Oct | 15, | 1962 | _ | Nov | 9, | 1962. | | ٠ | | | | 26 | Days |

TABLE 42

GREATEST NUMBER OF CONSECUTIVE DAYS WITHOUT MEASURABLE (LESS THAN .01 INCH) BUT INCLUDING TRACES

May 1928 - December 1988

| Sep | 11, | 1952 | - | Nov | 12, | 1952. | | | | | | 63 | Days |
|-----|-----|------|---|-----|-----|-------|--|---|--|--|--|----|------|
| Jun | 25, | 1963 | - | Aug | 24, | 1963. | | | | | | 61 | Days |
| Jun | 2, | 1935 | - | Jul | 26, | 1935. | | | | | | 56 | Days |
| Jul | 21, | 1944 | _ | Sep | 17, | 1944. | | | | | | 56 | Days |
| Sep | 14, | 1958 | - | Nov | 4, | 1958. | | | | | | 52 | Days |
| Jun | 14, | 1958 | _ | Jul | 28, | 1958. | | ٠ | | | | 45 | Days |
| Oct | 28, | 1939 | - | Dec | 10, | 1939. | | | | | | 44 | Days |
| Jun | 3, | 1978 | - | Aug | 14, | 1978. | | | | | | 42 | Days |
| Sep | 20, | 1978 | - | Oct | 31, | 1978. | | | | | | 42 | Days |
| Aug | 30, | 1943 | | 0ct | 6, | 1943. | | | | | | 38 | Days |
| Aug | 7, | 1974 | _ | Sep | 13, | 1974. | | | | | | 38 | Days |
| Sep | 5, | 1987 | _ | Oct | 11, | 1987. | | | | | | 37 | Days |
| Sep | 22, | 1964 | | Oct | 28, | 1964. | | | | | | 37 | Days |
| Aug | 21, | 1933 | _ | Sep | 23, | 1933. | | | | | | 36 | Days |
| Aug | 5, | 1950 | - | Sep | 8, | 1950. | | | | | | 35 | Days |
| Dec | 27, | 1960 | _ | Jan | 30, | 1961. | | | | | | 35 | Days |
| Aug | 21, | 1979 | | Sep | 24, | 1979. | | | | | | 35 | Days |
| Aug | 8, | 1988 | - | Sep | 11, | 1988. | | | | | | 35 | Days |

FIGURE 7 SALT LAKE CITY AIRPORT SEASONAL SNOWFALL RECORD 1929-1930 to 1987-1988 (Season)#

| INCHES | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|--------------------|---|----|--------|------|-------|--------|---------------|-------|--------|------|--------|-----|---------|
| 1929-30 | - | | | | | (42.0 |) | | | | | | |
| 1930-31 | | | | | (33 | 9) | , | | | | | | |
| 1931-32 | | | | | (00. | | | - (6 | 7 3) | | | | |
| 1932-33 | | | | | | | | (| 70 9) | | | | |
| 1933-34 | | | - (16. | 6) | | | | (| 10.0) | | | | |
| 1934-35 | | | | | (3 | 8.7) | | | | | | | |
| 1935-36 | | | | | | | - (55. | 7) | | | | | |
| 1936-37 | | | | | | | | | (73.0) | , | | | |
| 1937-38 | | | | (3 | 30.1) | | | | (1010) | | | | |
| 1938-39 | | | | | | (43. | 6) | | | | | | |
| 1939-40 | | | (18 | 3.5) | | | | | | | | | |
| 1940-41 | | | | (3 | 30.1) | | | | | | | | |
| 1941-42 | | | | | | | (58 | 3.7) | | | | | |
| 1942-43 | | | | (| 31.4 |) | | | | | | | |
| 1943-44 | | | | | | | | | | | (91.3) | | |
| 1944-45 | | | | | - (3 | 7.9) | | | | | | | |
| 1945-46 | | | | | (36 | 8) | | | | | | | |
| 1946-47 | | | | | | (4' | 7.7) | | | | | | |
| 1947-48 | | | | | | | 7.7) (54.3 |) | | | | | |
| 1948-49 | | | | | | | | | | (8 | 8.2) | | |
| 1949-50 | | | | | | | (53.2 |) | | | | | |
| 1950-51 | | | | | (36 | .0) | | | | | | | |
| 1951-52 | | | | | | | | | | | | | (117.3) |
| 1952-53 | | | | | | - (46. | .6) | | | | | | |
| 1953-54 | | | | | (| 40.0) | | | | | | | |
| 1954-55 | | | | | | | | (' | 70.1) | | | | |
| 1955-56 | | | | | | | - (55. | 9) | | | | | |
| 1956-57 | | | | | | | (57 | .2) | | | | | |
| 1957-58 | | | | | | | | (65 | .7) | | | | |
| 1958-59 | | | | | | (42.0) | | | | | | | |
| 1959-60 | | | | | | | 156 | 0) | | | | | |
| 1960-61 | | | | (| 31.3 |) | | | | | | | |
| 1961-62 | | | | | | | | | (80 | .5) | | | |
| 1962-63 | | | | | | (44.5 |) | | | / 05 | | | |
| 1963-64 1964-65 | | | | | | (16 | 0) | | | (8. | (.4) | | |
| 1965-66 | | | | | | (40. | 9) | 61 0 | \ | | | | |
| 1966-67 | | | | | | | | | (71 6) | | | | |
| 1967-68 | | | | | | | | | (74.3) | | | | |
| 1968-69 | | | | | | | | | | - (8 | 39.2) | | |
| 1969-70 | | | | | | | - (57 (1 | .2) | | (- | , | | |
| 1970-71 | | | | | | | (| 31.1) |) | | | | |
| 1971-72 | | | | | | | | | - (78. | 2) | | | |
| 1972-73 | | | | | | | | | | (87 | (.2) | | |
| 1973-74 | | | | | | | | | | | | (] | 10.8) |
| 1974-75 | | | | | | | | (| (72.6) | | | | |
| 1975-76 | | | | | | | | | (76.5 |) | | | |
| 1976-77 | | | | | | | (60 | 0.3) | | | | | |
| 1977-78 | | | | | | | (| 51.3) | | | | | |
| 1978-79 | | | | | | | ` | (64.6 | 5) | | | | |
| 1979-80 | | | | 10 | 0 0 | | (1 | 51.6) |) | | | | |
| 1980-81 | | | | (3 | 0.2) | | / | ٥١ | | | | | |
| 1981-82 | | | | | | | - (57 | .8) | | | | | |
| 1982-83 | | | | | | | (55.8 | 3) | | | | | |
| 1983-84 | | | | | | | | | 70.5 | | - (98 | .0) | |
| 1984-85 | | | | | | | (F4 O | (| (72.7) | | | | |
| 1985-86 | | | | | /05 | | (54.0) |) | | | | | |
| 1986-87 | | | | | (37 | .5) | | | | | | | |
| 1987-88 | | | | | (35. | 3) | | | | | | | |

#The snow season extends from 1 July to June 30. The average annual snowfall for this period of record (59 years) is 58.1 inches.

TABLE 43

NORMAL#; AND MAXIMUM AND MINIMUM MONTHLY SNOWFALL(INCHES)
May 1928 - December 1988

| Month JANUARY Normal# | | Monthly Ifall | | Monthly wfall | ! Month | | Monthly ! wfall ! | | Monthly wfall |
|-------------------------|---------|------------------|-------------|------------------|------------|-----------------|----------------------|--------|------------------|
| | Amount. | | ! Amount. | ! Year | 1 | Amount | ! Year ! | Amount | Year |
| JANUARY | 32.3 | 1937 | 0.1 | 1961 | JULY | | 1 1950 1 | 0.0 | Other |
| | 30.4 | 1967 | 2.4 | 1938 | ! Normal# | 1 | !!! | | ! Years |
| Monthly | 30.1 | 1949 | 2.5 | 1935 | Monthly | | 1 ! | | 1 |
| Total | 28.1 | 1933 | 2.8 | 1 1970 | ! Total | 1 | 1 1 | | ! |
| 13.7 | 25.2 | 1952 | 3.7 | 1948 | * T* | | !!! | | ! |
| | ! | 1010 | 1 7. | 1 1057 | LAUOUOT |] } ! T4: | 1 1040 | 0.0 | t Other |
| FEBRUARY | 27.9 | 1969 | <u> T*</u> | 1953 | AUGUST | | 1949, | 0.0 | |
| Normal# | 20.9 | 1936 | 0.3 | 1957 | Normal# | | 153,54,88 | | ! Years |
| Monthly | 20.1 | 1944+ | 0.4 | 1988 | Monthly | | <u>i</u> i | | 1 |
| Total | 19.0 | 1952 | 0.8 | 1963+ | Total | i | 1 1 | | 1 |
| 9.4 | 18.6 | 1956 | 0.9 | 1931 | ! T* | i | !!! | | ! |
| MARCH | 41.9 | 1977 | † T* | 1940+ | SEPTEMBER | 4.0 | 1971 | 0.0 | 1987+ |
| Normal# | 35.6 | 1952 | 1 0.4 | 1959 | ! Normal# | 2.2 | 1965 | | ! |
| Monthly | 33.5 | 1964 | 1 0.6 | 1955 | Monthly | 1.0 | 1978 | | 1 |
| Total | 30.8 | 1944 | 1 1.0 | 1986 | : Total | T* | 1988+ | | 1 |
| 10.1 | 25.3 | 1962 | 1.1 | 1 1965 | 0.1 | | 1 1 | | ! |
| APRIL | 26.4 | 1974 | 1 0.0 | 1 1954+ | OCTOBER | 20.4 | 1 1984 | 0.0 | 1988+ |
| Normal# | 25.1 | 1984 | T* | 1988+ | ! Normal# | 16.6 | 1971 | Ţ* | 1985+ |
| Monthly | 23.6 | 1970 | 0.1 | 1 1935 | Monthly | 10.4 | 1957 | | 1 |
| Total | 21.8 | 1955 | 0.2 | 1969 | Total | 8.3 | 1961 | | 1 |
| 5.3 | 15.5 | 1958 | 1 | ! | 1.3 | 6.0 | 1 1972 | | ! |
| MAY | 7.5 | 1975 | 1 0.0 | 1987+ | ! NOVEMBER | 27.2 | 1985 | 0.0 | 1976+ |
| Normal# | 5.3 | 1965+ | 1 0.0 | 1 17071 | Normal# | 19.5 | 1973 | T* | 1949+ |
| Monthly | 5.0 | 1983 | ! | ! | ! Monthly | 18.5 | 1 1931 | 0.4 | 1953 |
| Total | 4.6 | 1978 | ! | ! | ! Total | 18.0 | 1975 | 0.7 | 1 |
| 0.6 | 2.9 | 1955 | ! | ! | 6.5 | 17.4 | 1978 | | ! |
| 0.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 |
| JUNE | ; T* | 1984+ | 1 0.0 | 1988+ | DECEMBER | 35.2 | 1972 | 0.9 | 1962 |
| Normal# | ! | 1 | 1 | 1 | ! Normal# | 34.3 | 1948 | 1.0 | 1937 |
| Monthly | 1 | f E | į į | 1 | ! Monthly | 34.2 | 1983 | 1.2 | 1976 |
| Total | 1 | 1 | 1 | ! | ! Total | 33.3 | 1968 | 1.7 | 1986 |
| T* | 1 | 1 | 1 | 1 | 12.2 | 27.3 | 1932 | 2.1 | 1942 |

TABLE 44 NORMAL# ANNUAL TOTAL; AND MAXIMUM AND MINIMUM ANNUAL TOTAL (IN) BY SEASON 1928-1929 through 1987-1988

| :M | aximum A | Ann | ual Snowfal | 1; | | ; N | Minimum A | Ann | ual Snowfall | 1 |
|----|----------|-----|-------------|----|--------|-----|-----------|--------|--------------|---|
| 1 | Amount | 1 | Years | 1 | | 1 | Amount | 1 | Years | 1 |
| 1 | 117.3 | ! | 1951-1952 | 1 | NORMAL | ; | 16.6 | 1 | 1933-1934 | 1 |
| 1 | 110.8 | ! | 1973-1974 | 1 | 59.2 | ! | 18.5 | 1 | 1939-1940 | 1 |
| ! | 98.0 | ! | 1983-1984 | 1 | | 1 | 30.1 | 1 | 1940-1941+ | 1 |
| ! | 91.3 | ! | 1943-1944 | 1 | | 1 1 | 30.2 | ! | 1980-1981 | 1 |
| 1 | 89.2 | ! | 1968-1969 | 1 | | 1 | 31.3 | l I | 1960-1961 | ! |

#Normals cover the entire period of record. The snowfall season begins July 1 and ends June 30.

⁺Also occurred in prior years

^{*}T is a trace too small to measure

TABLE 45a

GREATEST 24-HOUR SNOWFALL (INCHES)

(Midnight to Midnight) May 1928 - April 1988

| 1 | JANUA | R | Y : | FEBRU | JA | RY : | MARC | Н | | 1 | APRI | L | |
|--------|----------|--------------|--------|----------|----|--------|----------|---|-------|---|----------|---|-------|
| ! | Greatest | ; | Year ! | Greatest | ; | Year ! | Greatest | 3 | Year | 1 | Greatest | , | Year |
| DAY : | 24 - Hr | 1 | of : | 24 - Hr | 1 | of : | 24 - Hr | 1 | of | 1 | 24 - Hr | 3 | of |
| 1 | Snowfall | ; | Event! | Snowfall | 1 | Event! | Snowfall | ; | Event | 1 | Snowfall | 1 | Event |
| 1 : | 4.6 | ; | 1937 : | 4.1 | 1 | 1969 : | 7.3 | 1 | 1977 | 1 | 6.0 | 1 | 1984+ |
| 2 ; | 4.0 | ! | 1955 : | 5.0 | 1 | 1936 | 10.1 | ; | 1977 | 1 | 9.6 | 1 | 1955 |
| 3 | 6.3 | ; | 1944 : | 7.0 | ! | 1936 : | 4.2 | 1 | 1962 | ; | 7.2 | 1 | 1983 |
| 4 : | 3.3 | 1 | 1929 : | 6.0 | 1 | 1938 | 3.0 | 1 | 1938 | ! | 3.9 | 1 | 1947 |
| 5 ; | 6.1 | ! | 1987 : | 6.2 | 1 | 1974 : | 2.4 | 1 | 1980 | 1 | 1.6 | 1 | 1941 |
| 1 | | 1 | ! | | 1 | ! | | 1 | | 1 | | ; | |
| 6 : | 7.6 | ! | 1967 | 7.9 | ! | 1969 : | 4.0 | ; | 1930 | 1 | 3.1 | 1 | 1968 |
| 7 : | 7.7 | ! | 1974 : | 3.1 | ! | 1966 | 2.0 | ; | 1945 | 1 | .5 | 1 | 1982 |
| 8 : | 6.4 | ! | 1985 | 8.5 | ! | 1959 | 2.6 | ! | 1958 | 1 | .9 | 1 | 1984 |
| 9 : | 3.4 | ! | 1950 : | 4.5 | ! | 1965 | 4.8 | 1 | 1948 | 1 | 9.0 | ; | 1929 |
| 10 : | 4.0 | ! | 1968 : | 7.7 | ! | 1984 | 7.4 | 1 | 1962 | 1 | 11.8 | 1 | 1974 |
| 10 1 | 1.0 | ! | ! | | ! | 1 | | 1 | | 1 | | 1 | |
| 11 : | 3.5 | ! | 1988 | 5.0 | ! | 1949 | 11.0 | 1 | 1952 | 1 | 1.5 | ; | 1984 |
| 12 | 5.7 | ! | 1932 | 7.7 | 1 | 1952 | 1.8 | ! | 1964 | ! | 3.8 | ! | 1974 |
| 13 | 3.0 | ! | 1971+1 | 5.8 | · | 1968 | 9.4 | ! | 1944 | 1 | 7.9 | ! | 1972 |
| 14 : | 8.5 | + | 1953 | 7.2 | 1 | 1944 | 9.3 | ! | 1944 | ! | 1.5 | ; | 1977 |
| 15 | 3.5 | 1 | 1933 | 3.1 | ! | 1978 | 7.9 | ! | 1964 | 1 | 2.2 | 1 | 1967 |
| 1 10 1 | 0.0 | , | 1000 | 0.1 | ! | 1010 | | ! | 1001 | ! | | ! | |
| 16 | 6.5 | - | 1959 | 3.9 | 1 | 1984 | 5.6 | ! | 1958 | ! | 4.2 | ! | 1941 |
| 17 | 4.3 | ' | 1936 | 3.1 | ! | 1955 | 6.3 | ! | 1968 | ! | 3.7 | ! | 1944 |
| 18 | 5.0 | , | 1964 | 7.4 | 1 | 1961 | 2.1 | ! | 1968+ | ! | 6.5 | ! | 1972 |
| 19 | 7.5 | - | 1973 | 2.0 | , | 1939 | 6.1 | ! | 1983 | ! | 2.1 | ! | 1987 |
| 20 | 9.7 | 1 | 1962 | 3.9 | - | 1985 | 4.4 | ! | 1944 | ! | 5.4 | ! | 1968 |
| , 20 , | 3.1 | 1 | 1302 | 0.0 | 1 | 1000 | 7.7 | ! | 1011 | ! | 0.1 | : | 1000 |
| 21 | 4.5 | 1 | 1953 | 3.1 | 1 | 1975 | 6.4 | 1 | 1980 | ! | 4.5 | ! | 1968 |
| 22 1 | 5.4 | 1 | 1949 | 2.7 | 1 | 1942 | 11.5 | , | 1964 | 1 | 1.8 | 1 | 1970 |
| 23 | 5.5 | 1 | 1950 : | 6.4 | 1 | 1956 | 2.8 | 1 | 1975 | - | 10.1 | - | 1958 |
| 24 | 4.9 | 1 | 1957 | 5.1 | 1 | 1972 | 4.7 | 1 | 1952 | 1 | 1.6 | ! | 1945 |
| 25 | 3.6 | , | 1967 | 8.3 | 1 | 1969 | 4.5 | , | 1975 | 1 | 8.5 | - | 1975 |
| 1 20 1 | 3.0 | 1 | 1307 | 0.0 | 1 | 1303 | 4.0 | , | 1010 | 1 | 0.0 | 1 | 1010 |
| 26 | 4.7 | 1 | 1969 | 3.1 | ! | 1958 | 4.2 | 1 | 1981 | 1 | 8.1 | ! | 1955 |
| 27 | 5.1 | - | | 6.3 | 1 | 1947 | 2.6 | 1 | 1981 | ! | 4.7 | ! | 1970 |
| 28 | 5.8 | 1 | 1933 | 3.0 | 1 | 1930 | 3.0 | 1 | 1987 | ! | 6.4 | 1 | 1970 |
| | | 1 | 1980 | 3.0 T | 1 | 1984+ | | 1 | 1967 | 1 | 5.8 | 1 | 1967 |
| 29 1 | | 1 | 1932 | 1 | 1 | 13047 | 5.2 | 1 | 1980 | 1 | 3.5 | 1 | 1970 |
| 30 | 2.1 | 1 | 1932 | | 1 | | 0.4 | 1 | 1300 | 1 | 0.0 | 1 | 1010 |
| 1 07 | C 0 | 1 | 1020 | | 1 | | 8.0 | 1 | 1936 | 1 | | 1 | |
| 31 | 6.8 | 1 | 1939 | | 1 | | 0.0 | 1 | 1330 | 1 | | 1 | |
| i i | | i . | 9071 | | 1 | 0/ | 1 | 1 | 22/ | 1 | | 1 | 10/ |
| i . | 0.0 | 1 | 29/ 1 | 0.5 | 5 | 8/ | 17 5 | 1 | 22/ | 1 | 11 0 | 1 | |
| Mnth | 9.9 | ; | 1980 : | 8.5 | ; | 1959 | 11.5 | , | 1964 | 1 | 11.8 | i | 1974 |

⁺ Also occurred in earlier years.

TABLE 45b

GREATEST 24-HOUR SNOWFALL (INCHES) (Midnight to Midnight) May 1928 - August 1988

| ! ! | MAY | 7 | ! | JUN | Œ | | | 1 | | |
|-------|----------|---|--------|----------|---|--------|------------|--------|------------|--------|
| 1 1 | Greatest | 1 | Year ! | Greatest | 1 | Year ! | Greatest ! | Year ! | Greatest : | Year ! |
| DAY | 24 - Hr | 1 | of ! | 24 - Hr | ! | of ! | 24 - Hr | of : | 24 - Hr | of |
| ! ! | Snowfall | į | Event! | Snowfall | ! | Event: | Snowfall : | Event! | Snowfall | Event: |
| 1 1 | .9 | ! | 1988 | | 1 | 1 | 1 | ! | 1 | ; |
| : 2: | | | 1964 : | | ! | 1 | : | 1 | 1 | 1 |
| : 3 : | | | 1950 : | | 1 | ; | | 1 | ! | } |
| : 4: | | | 1975 | | ! | ; | 1 | ! | ! | ; |
| 1 5 | | 1 | 1965 : | | 1 | ! | 1 | 1 | 1 | ; |
| 1 1 | | 1 | ! | | 1 | ; | 1 | ! | ; | ! |
| 1 6 1 | 1.1 | 1 | 1975 | | 1 | 1 | 1 | 1 | 1 | ! |
| 7 | | 1 | 1979+1 | | 1 | 1 | 1 | 1 | 1 | ! |
| 1 8 | | 1 | 1930 : | | 1 | ! | ! | 1 | 1 | ; |
| 9 1 | | | 1986+1 | | ! | 1 | ! | 1 | 1 | ; |
| 1 10 | | ! | 1953 | | ! | ! | 1 | 1 | ; | ! |
| 1 10 | • • | ÷ | 1000 | | ; | ! | 1 | ; | ! | 1 |
| : 11 | 5.0 | 1 | 1983 | | 1 | 1 | ! | 1 | ! | ! |
| 1 12 | | ! | 1982+1 | | ! | ! | - 1 | 1 | ; | 1 |
| ; 13 | | ! | 1956+1 | | 1 | : | | ; | ; | ! |
| 1 14 | | ! | 1968 | | ! | 1 | 1 | 1 | 1 | 1 |
| : 15 | | ! | 1955 | | ! | ; | 1 | | ; | 1 |
| 1 10 | 2.0 | ! | 1 | | 1 | ; | ? | ; | ; | ! |
| : 16 | T | ! | 1978+1 | | 1 | ! | ! | ! | 1 |) 1 |
| : 17 | | | 1971 : | | ! | ; | 1 | ! | 1 | ; |
| : 18 | | | 1960 | | ! | ! | 1 | ! | ; | 1 |
| ; 19 | | | 1975+1 | | 1 | ! | ; | (| ; | ! |
| : 20 | | | 1975+1 | | 1 | ; | ļ | ! | ; | ! |
| 1 | | ! | 1 | | 1 | ! | ! | ! | ; | 1 |
| : 21 | T | ! | 1975+1 | | ; | ! | - | ; | ! | 1 |
| : 22 | | | 1975+1 | | 1 | 1 | 1 | ! | 1 | |
| : 23 | | 1 | ! | | 1 | ! | 1 | 1 | 1 | 1 |
| : 24 | | ! | 1980+1 | | 1 | ; | ! | 1 | ; | 1 |
| : 25 | | | 1980 | | 1 | ! | 1 | | 1 | ! |
| 1 | ! | ! | ! | | 1 | ! | 1 | ! | ! | ! |
| : 26 | T | 1 | 1929 | | ; | | | 1 | ! | 1 |
| : 27 | | | 1929 | | ! | ! | - | 1 | ; | 1 |
| : 28 | | | 1982 | | ! | | | | ! | - |
| 29 | | - | 1 | | ! | ! | | ! | | 1 |
| 1 30 | 1 0 | ! | | | ! | | | | ! | - |
| 1 30 | 1 | - | | | ! | ! | | ! | | 1 |
| 31 | ; 0 | , | , | | , | | | | ! | ! |
| 1 01 | 1 | 1 | 1 | | ! | | | | | 1 |
| 1 | 1 | 1 | 5/ ; | | 1 | | | | ! | ! |
| Mnth | 5.3 | 1 | 1965 | 0 | 1 | | 0 | | 0 | |
| MILLI | 1 0.0 | 1 | 1300 | U | | | U | , | 0 1 | |

⁺ Also occurred in earlier years.

TABLE 45c

GREATEST 24-HOUR SNOWFALL (INCHES)

(Midnight to Midnight)

May 1928 - December 1988

| ; ; | SEPTEM | BER : | ОСТОВ | EI | R ; | NOVEME | | R | 1 | DECEMB | _ | |
|--------|----------|--------------|----------|----|--------|----------|----------|-------|---|----------|---|-------|
| 1 1 | Greatest | Year | Greatest | 1 | Year ! | Greatest | ; | Year | 1 | Greatest | 1 | |
| DAY ! | 24 - Hr | of ! | 24 - Hr | 1 | of ; | 24 - Hr | 1 | of | 1 | 24 - Hr | 1 | of |
| ! ! | Snowfall | Event | Snowfall | 1 | Event: | Snowfall | 1 | Event | 1 | Snowfall | 1 | Event |
| 1 1 : | 0 | 1 1 | .7 | ŧ | 1971 : | 2.9 | 1 | 1956 | 1 | 7.3 | 1 | 1982 |
| 1 2 1 | 0 | ! ! | T | ; | 1971 : | 5.5 | ! | 1957 | ! | 4.5 | 1 | 1952 |
| 3 1 | 0 | 1 1 | T | ; | 1969 : | 3.1 | 1 | 1973 | 1 | 2.0 | 1 | 1971 |
| : 4: | 0 | 1 1 | 0 | 1 | ! | 3.0 | 1 | 1940 | 1 | 8.7 | 1 | 1948 |
| 1 5 1 | 0 | 1 1 | Т | ; | 1941 : | 5.0 | 1 | 1947 | 1 | 4.4 | 1 | 1956 |
| 1 1 | | ! ! | | ! | 1 | | 1 | | 1 | | 1 | |
| 6 1 | 0 | !!! | T | ! | 1970+1 | 2.6 | ; | 1986 | ; | 6.1 | 1 | 1956 |
| 1 7 1 | 0 | ! | T | 1 | 1970+ | 4.6 | 1 | 1945 | 1 | 3.6 | 1 | 1982+ |
| : 8 : | 0 | !!! | T | ! | 1961 | 2.3 | ! | 1983 | ; | 10.5 | 1 | 1985 |
| : 9: | 0 | ! | T | ! | 1973+1 | 2.0 | ! | 1935 | ! | 5.5 | 1 | 1931 |
| : 10 : | 0 | 1 | T | 1 | 1969+1 | 4.8 | ! | 1978 | ! | 4.0 | ! | 1949 |
| 1 10 1 | V | - | 1 | ! | ! | | ! | | 1 | | ! | |
| 111 : | 0 | 1 ! | 0 | ! | ! | 4.7 | 1 | 1985 | ! | 9.5 | 1 | 1968 |
| 12 | 0 | 1 1 | T | ! | 1969 | 5.1 | ! | 1985 | ! | 2.2 | ; | 1972 |
| 13 | 0 | - | 3.6 | ! | 1966 | 1.7 | ! | 1951 | ! | 3.7 | ! | 1982 |
| 114 | 0 | 1 | .1 | 1 | 1969 | 6.9 | ! | 1955 | ! | 2.6 | ! | 1948 |
| 1 15 | 0 | 1 | .2 | ! | 1984 | 9.5 | ! | 1958 | ! | 2.3 | ! | 1928 |
| 1 10 1 | 0 | 1 | 1 | ! | 1001 | 0.0 | ! | 1000 | ! | | ! | |
| 16 | Т | 1946 | T | 1 | 1984+ | 4.0 | ! | 1931 | ! | 8.5 | 1 | 1967 |
| 17 | 2.2 | 1965 | 4.8 | ! | 1984 | 11.0 | ! | 1930 | ! | 8.8 | ! | 1970 |
| 1 18 | 1.0 | 1978 | 13.8 | 1 | 1984 | 4.1 | ! | 1985 | ! | 3.7 | ! | 1977 |
| 1 19 | 0 | 1 13/0 | : Т | , | 1984+ | 6.9 | <u>;</u> | 1941 | ! | 5.2 | ! | 1951 |
| 20 | 0 | 1 | 1.0 | 1 | 1949 | 7.0 | ! | 1946 | ! | 6.6 | ! | 1967 |
| 1 20 1 | 0 | 1 | 1 1,0 | + | 1040 | 7.0 | ! | 1010 | 1 | 0.0 | ! | 1001 |
| 21 | 0 | 1 | 2.0 | 1 | 1961 | 4.3 | , | 1961 | 1 | 4.0 | · | 1979 |
| 22 | 0 | 1 | 1 .1 | 1 | 1935 | .5 | 1 | 1940 | 1 | 4.7 | ! | 1987 |
| | 0 | 1 | T | 1 | 1975+ | | 1 | 1931 | 1 | 3.8 | ! | 1948 |
| 23 : | T | 1 1984 | 6.6 | 1 | 1956 | 4.9 | ! | 1951 | ! | 7.6 | ! | 1932 |
| 25 | T | 1 1986+ | | 1 | 1954 | 5.7 | ! | 1944 | 1 | 5.9 | ! | 1943 |
| 1 40 1 | 1 | 1 13001 | 1 | 1 | 1304 | 0.1 | , | 1011 | 1 | 0.0 | 1 | 1010 |
| 26 | T | 1934 | 1.6 | 1 | 1984 | 7.0 | 1 | 1973 | · | 4.3 | - | 1936 |
| 27 | 0 | 1 1334 | 5.8 | 1 | 1971 | 4.6 | ! | 1960 | ! | 8.1 | 1 | 1948 |
| 28 | 0 | 1 | 6.3 | 1 | 1961 | 3.5 | ! | | ! | 12.6 | ! | 1972 |
| 29 | | : 1950 | 3.5 | 1 | 1972 | 5.1 | 1 | 1975 | ! | 8.0 | ! | 1936 |
| 30 | | 1971 | 2.2 | 1 | 1981 | 4.2 | 1 | 1967 | ! | 5.8 | ! | 1975 |
| 1 30 1 | 4.0 | 1 13/1 | 1 4.4 | - | 1001 | 1.6 | 1 | 1001 | ! | 0.0 | 1 | 1010 |
| 31 | | 1 | 8.5 | 1 | 1971 | | 1 | | 1 | 4.7 | ! | 1965+ |
| 1 21 | | 1 | 1 0.0 | 1 | 13/1 | | 1 | | 1 | 7 . 1 | 1 | 10001 |
| 1 | | 30/ | 1 | 1 | 18/ | | 1 | 17/ | 1 | | 1 | 28/ |
| IMe 11 | 4.0 | | | 1 | | 11.0 | 1 | 1930 | 1 | 12.6 | 1 | 1972 |
| Mnth | 4.0 | : 1971 | 13.8 | 1 | 1984 | 1.1.0 | 1 | 1330 | 1 | 14.0 | 1 | 1314 |

⁺ Also occurred in earlier years.

TABLE 46

GREATEST SNOWFALL (INCLUDING ICE PELLETS) IN ANY 24 HOURS (INCHES AND TENTHS)
AND GREATEST DEPTH# OF SNOW ON THE GROUND (INCHES) AND DATES

May 1928 - December 1988

| | GREATEST | SNOWFALL IN | | | | SNOW ON GROUN |
|--------------|----------|--------------------|-------|----------|----------|---------------|
| MONTH | AMOUNT : | DAYS | YEAR | : AMOUNT | | YEAR |
| | 10.7 | 28-29 | 1980 | 1 23 | 23-24 | 1949 |
| JANUARY | 9.7 : | 20 | 1962 | ; 17 | : 31 | 1937 |
| | 9.0 | 6-7 | 1967 | 1 13 | 1 7 1 | 1967 |
| | 8.5 | 14 ; | 1953 | ; 12 | 29-30 | 1980 |
| | : : | 1 | | 1 | 1 1 | |
| | 8.8 | 10-11 : | 1984 | ; 17 | : 1-2 : | 1949 |
| FEBRUARY | 8.7 | 14-15 : | 1944 | 1 15 | 1 1 | 1937 |
| | 8.6 | 4-5 : | 1974 | 13 | : 11 : | 1984 |
| | 8.5 : | 8 ! | 1959 | ; 11 | 3 1 | 1936+ |
| | 1 | 1 | | 1 | 1 1 | |
| | 15.4 | 13-14 : | 1944 | : 14 | 1 2 1 | 1977 |
| MARCH | 13.9 | 1-2 | 1966 | : 11 | ; 2 ; | 1966+ |
| PIAROII | 13.8 | 10-11 : | 1952 | ; 9 | : 10 : | 1962+ |
| | 11.8 | 21-22 | 1964 | ; 8 | : 31 : | 1936 |
| | 11.0 | and . L. and and 1 | 2001 | 1 | 1 1 | |
| | 16.2 | 9-10 : | 1974 | : 12 | ; 10 ; | 1974 |
| APRIL | 11.1 | 22-23 | 1958 | 10 | 1 23 1 | 1958 |
| WLUTT | 10.7 | 25-26 | 1984+ | ; 9 | 1 2 1 | 1955 |
| | 9.7 | 27-28 : | 1970 | ; 8 | 1 28 1 | 1970 |
| | 1 3.1 1 | 21 20 1 | 1010 | 1 | 1 1 | |
| | 6.4 | 4-5 | 1975 | 1 5 | ; 2 ; | 1964 |
| MAY | 5.3 | 5 : | 1965 | : 4 | 1 5 1 | 1978 |
| MAI | 5.0 | 11 1 | 1983 | 3 | : 4-5 : | 1975 |
| | 4.9 | 2 | 1964 | ; 2 | 111 | 1983+ |
| | 4.9 | 4 1 | 1304 | 1 4 | 1 1 | |
| | 4.0 | 30 | 1971 | ; 4 | ; 30 ; | 1971 |
| CEDMENDED | 2.2 | 17 | 1965 | ! 1 | : 17 : | 1965 |
| SEPTEMBER | | 18 | 1978 | 1 1 | 1 1 | 1000 |
| | 1.0 | 10 | 1370 | 1 | 1 1 | |
| | <u> </u> | 1 | | | 1 1 | |
| | 1 10 4 | 17 10 1 | 1984 | 14 | 18 | 1984 |
| O GEOGRAPHIC | 18.4 | 17-18 : | 1984 | 1 8 | 31 | 1972 |
| OCTOBER | 8.5 | 31 1 | | 1 6 | 1 24 1 | 1956 |
| | 6.7 | 31-1 | 1956 | 1 4 | 1 29 1 | 1972 |
| | 6.3 | 28 | 1961 | 1 4 | 1 43 1 | 1312 |
| | 1 1 | 177 | 1000 | , ,,,,, | 1 10 | 1005 |
| | 11.0 | 17 ; | 1930 | 11 | 19 ; | 1985 |
| NOVEMBER | 9.9 | 14-15 | 1958 | 10 | 15-16 | 1958 |
| | 8.8 | 18-19 | 1985 | ! 8 | 15 1 | 1955 |
| | 7.0 | 20 | 1946 | ! 7 | 26-27 | 1973+ |
| | 1 1 | 1 | | 1 | | 1040 |
| | 18.1 | 28-29 | 1972 | : 16 | : 28 : | 1948 |
| DECEMBER | 13.4 | 16-17 : | 1970 | 1 15 | : 29 : | 1972 |
| | 10.7 | 7-8 : | 1985 | : 14 | 25 | 1932 |
| | 10.5 | 27-28 : | 1948 | 13 | 25-28 | 1983+ |
| | 1 1 | | | ! | 1 1 | |
| ANNUAL | 18.4 | 10/17-18: | 1984 | 23 | 1/23-24: | 1949 |

⁺Also in earlier years

[#]Greatest snow depth in a given snow episode

EARLIEST AND LATEST DATE AND AMOUNT OF MEASURABLE SNOWFALL (0.1 INCH OR MORE)

AND THE AVERAGE DATE OF THE FIRST MEASURABLE SNOWFALL

May 1928 - December 1988

| EARLIEST F | FALL DATE AND | 1 | LATEST | FALL | DATE AND | - | AVERAGE DATE OF THE | | LATEST | SPRIN | G DATE | AND | AVERAGE | DATE OF | THE |
|-------------|---------------|---|---------|------|------------|---|---------------------|---|---------|-------|----------|-----|---------|---------|-----|
| AMOUNT (| OF SNOWFALL | 1 | AMOUN? | r OF | SNOWFALL | 1 | FIRST SNOWFALL | 1 | AMOUN | T OF | SNOWFAL | L | LAST | SNOWFAL | L |
| DATE | AMOUNT(IN) | 1 | DATE | | AMOUNT(IN) | 1 | | 1 | DATE | | AMOUNT (| IN) | 1 | | |
| Sep 17, 19 | 965 2.2 | 1 | Dec 25, | 1943 | * 5.9 | 1 | | 1 | May 18, | 1960 | 1.0 | | ‡ { | | |
| Sep 18, 19 | 978 1.0 | 1 | Dec 25, | 1939 | 0.5 | 1 | | 1 | May 15, | 1955 | 2.9 | | i ; | | |
| Sep 30, 19 | 971 4.0 | 1 | Dec 23, | 1937 | 1.0 | 1 | | 1 | May 11, | 1983 | 5.0 | | 1 | | |
| Oct 13, 19 | 966 3.6 | 1 | Dec 9, | 1949 | 3.6 | 1 | NOVEMBER 9 | į | May 11, | 1967 | 1.0 | | ! A | PRIL 18 | |
| Oct 14, 19 | 969 0.1 | 1 | Dec 7, | 1974 | + 2.4 | 1 | | 1 | May 10, | 1953 | 0.1 | | 1 | | |
| Oct. 15, 19 | 984 0.2 | 1 | | | | 1 | | 1 | May 8, | 1930 | 1.0 | | 1 | | |
| Oct. 20, 19 | 949 1.0 | 1 | | | | 1 | | 1 | May 5, | 1964 | 0.4 | | : | | |
| Oct 21, 19 | 961 2.0 | 1 | | | | 1 | | 1 | May 5, | 1937 | 0.3 | | 1 | | - |

TABLE 48

GREATEST NUMBER OF CONSECUTIVE DAYS WITH 1.0 INCH OR MORE OF SNOW ON THE GROUND

May 1928 - December 1988

| 1 | Days | 1 | | | Pe | er: | iod | | |
|---|------|---|-----|-----|------|-----|-----|-----|------|
| 1 | 86 | 1 | Nov | 17, | 1930 | - | Feb | 11, | 1931 |
| ! | 83 | ; | Dec | 20, | 1983 | - | Mar | 11, | 1984 |
| 1 | 82 | 1 | Dec | 9, | 1932 | - | Feb | 28, | 1933 |
| 1 | 77 | ; | Dec | 14, | 1948 | | Feb | 28, | 1949 |
| 1 | 61 | 1 | Jan | 9, | 1985 | - | Mar | 10, | 1985 |
| ; | 54 | 1 | Dec | 28, | 1972 | - | Feb | 19, | 1973 |
| 1 | 54 | 1 | Jan | 3, | 1955 | - | Feb | 25, | 1955 |
| 1 | 52 | 1 | Dec | 6, | 1967 | - | Jan | 26, | 1968 |
| ! | 51 | ! | Dec | 20, | 1963 | - | Feb | 9, | 1964 |
| ! | 45 | ; | Dec | 25, | 1943 | - | Feb | 7, | 1944 |

TABLE 49

MAXIMUM SNOWFALL FROM ANY SINGLE STORM#
May 1928 - December 1988

| | AMOUNT | 1 | | | | | DUI | RAT | TION | | | | | 1 |
|---|--------|---|--------|------|-----|-----|------|-----|-------|------|-----|-----|------|-----|
| | inches | ! | В | egar | 1 | | | | | Ende | d | | | ! |
| | 21.6 | ; | | | Mar | 12, | 1944 | | | | Mar | 15, | 1944 | 1 |
| | 18.4 | ; | 5:04 a | . m. | Oct | 17, | 1984 | | 10:35 | a.m. | Oct | 18, | 1984 | 1 |
| - | 18.1 | ! | 1:03 p | .m. | Dec | 28, | 1972 | - | 1:30 | p.m. | Dec | 29, | 1972 | - ! |
| | 17.4 | 1 | 5:43 a | .m. | Mar | 1, | 1977 | - | 3:35 | a.m. | Mar | 3, | 1977 | 1 |
| - | 17.4 | ! | 6:02 p | . m. | Apr | 9, | 1974 | | 8:20 | p.m. | Apr | 10, | 1974 | 1 |

#Storm total not limited to 24 hours.

*This date is for the airport location. The latest fall snowfall to occur in the Salt Lake area was during the winter of 1890-91 when the first measurable snow came on Jan 2, 1891 (0.3 inches)
+Also occurred on this date in earlier years.

AVERAGE NUMBER, MAXIMUM AND MINIMUM NUMBER OF DAYS WITH SNOWFALL (0.1 INCH OR MORE), BY MONTHS AND YEAR OF OCCURRENCE May 1928 - December 1988

| Month | of Day | Number s With fall | of Day | Number s With sfall | Month | of Day | Number s With sfall | Minimum Numbe of Days With Snowfall | | |
|---------------|--------|--------------------------|--------|---------------------------|------------------|--------|---------------------------|---|--------|--|
| | Days | ! Year | Days | ! Year | f I | Days | ! Year | Days | ! Year | |
| September | 1 | 1978+ | 1 0 | 1988+ | January | 1 17 | 1979 | 1 | 1 1961 | |
| | | ! | 1 | 1 | f I | 1 16 | 1937 | 1 2 | 1953+ | |
| Average : | 1 | 1 | 1 | 1 | Average | 1 15 | 1949 | 1 3 | 1940+ | |
| _ | 1 | 1 | 1 | 1 | 9 | 14 | 1 1932 | ! ! | 1 | |
| October | 6 | 1971 | 1 0 | 1988+ | February | 1 15 | 1939 | 1 0 | 1953 | |
| | 4 | 1 1984 | 1 | ! | 1 | 12 | 1960+ | 1 1 | 1973+ | |
| Average : | 2 | 1981 | ! | 1 | ! Average | 1 11 | 1985 | 1 | 1 | |
| * | 1 | ! | 1 | 1 | 6 | 10 | 1 1984 | 1 | 1 | |
| * November | 11 | 1985 | 1 0 | 1 1976+ | i March | 1 17 | 1 1977 | ! 0 | 1940+ | |
| | 10 | 1975+ | 1 1 | 1987+ | 1 | 1 15 | 1964 | : 1 | 19874 | |
| Average | 9 | 1988+ | 1 | ! | Average | 1 13 | 1 1952 | Į Į | 1 | |
| 4 | 8 | 1978+ | ! | 1 | 5 | 12 | 1944 | Į | ! | |
| | 7 | 1983+ | 1 | 1 | t t | 1 11 | 1938 | 1 | 1 | |
| December | 1 21 | 1983 | 1 1 | 19624 | April | 1 11 | 1970 | 1 0 | 19884 | |
| | 1 15 | 1951+ | 1 2 | 1979+ | £ | 18 | 1984 | 1 | 1 | |
| Average | 1 14 | 1970+ | 1 | 1 | : Average | 1_7 | 1974+ | 1 | 1 2 | |
| 7 | 13 | 1973+ | 1 | 1 | 3 | 1 6 | 1967 | Į Į | 1 | |
| | 1 12 | 19694 | ! | ! | ! | 1 | ! | ! | ! | |
| | | | | | ! May | 1 3 | 1 1975 | 1 0 | 1987+ | |
| | | | | | 1 | 1 2 | 1 1978+ | 1 | 1 | |
| | | | | | { Average ! * | 1 1 | 1988+ | 1 | 1 | |

TABLE 51

AVERAGE AND MAXIMUM AND MINIMUM NUMBER OF DAYS WITH SNOWFALL (0.1 INCH OR MORE) BY SEASON# 1928-1929 through 1987-1988

| 1 | Maximum | Nu | mber of Days | 1 | Average Number | ; | Minimum | N | Number of Days | |
|---|---------|----|--------------|---|----------------|---|---------|---|----------------|--|
| | | | | 1 | of Days | 1 | | | | |
| • | Days | 1 | Season | 1 | | 1 | Days | ; | Season | |
| | 63 | 1 | 1983-1984 | 1 | | 1 | 9 | 1 | 1939-1940 | |
| | 52 | ! | 1973-1974 | 1 | | ; | 11 | 1 | 1933-1934 | |
| | 51 | 1 | 1963-1964 | 1 | 34 | 1 | 18 | , | 1946-1947 | |
| | 50 | 1 | 1978-1979+ | ; | | ; | 21 | 1 | 1958-1959 | |
| | 48 | ! | 1984-1985+ | 1 | | 1 | 22 | , | 1962-1963+ | |
| | 45 | 1 | 1975-1976 | ! | | ; | 23 | , | 1952-1953 | |

- + Also occurred in earlier years or seasons
- * The average frequency is less than 1/2 day
- # The snowfall season begins July 1 and ends June 30.

AVERAGE AND MAXIMUM NUMBER OF DAYS WITH SNOWFALL (INCLUDING ICE PELLETS) OF 1 INCH OR MORE AND 3 INCHES OR MORE BY MONTHS AND YEAR OF OCCURRENCE

| Month | | | ch or more | | 11 3 incl | hes or more |
|-----------|--------|------------|---------------------------|------|-----------|-------------|
| | | | Dec 1988 : um Number : | Avg | | um Number |
| | Avg | | Year : | Days | | Year |
| | Days ! | Days 1 | 1978+ | * | l | 1971 |
| September | * ; | | 1970 | T 1 | 1 | 1 1311 |
| | | | 1 1 | , | | 1 |
| | i i | | 1 1 | , | |) |
| October | * ! | 3 | 1984 | * ; | 2 | 1984+ |
| October | | 2 | 1981+ | | 1 | 1972+ |
| | | 1 | 1 1973+ | | | 1 |
| | | | 1 | | | 1 |
| November | 2 : | 8 | 1 1985 | 1 : | 5 | 1985 |
| 1,0,00000 | | 7 | 1931 | ; | 3 | 1978+ |
| | ! ! | 6 | 1975+ | ; | 2 | 1961+ |
| | : | | 1 1 | ; | | 1 |
| December | 4 : | 15 | 1983 | 2 : | 5 | 1972+ |
| | 1 | 9 | 1932 | ; | 4 | 1982+ |
| | ; ; | 8 | 1972+ | 1 | 3 | 1970+ |
| | ! ! | | 1 | 1 | | 1 |
| January | 4 : | 9 | 1949+ | 2 : | 5 | 1967+ |
| | 1 | 7 | 1967+ | ; | 4 | 1965 |
| | ! ! | 6 | 1982+ | 1 | 3 | 1980+ |
| | ; ; | | 1 ! | | | 1 |
| February | 3 | 8 | 1939 | 1 | 4 | 1969 |
| | ! ! | 7 | 1976 | ; | 2 | 1987+ |
| | ; ; | 6 | 1979+ | 1 | | ! |
| | | | 1 1 | | | ! |
| March | 3 1 | 10 | 1964 | 1 | 5 | 1977 |
| | ! ! | 9 | 1 1977+ | | 4 | 1952 |
| | ; ; | 8 | 1962 | | 3 | 1980+ |
| | 1 1 | | 1 1074 | 1 | 4 | 1984+ |
| April | 1 1 | <u>6</u> 5 | 1974 | 1 1 | 3 | 1974+ |
| | i i | 4 | 1967+ | | 2 | 1975+ |
| | i 1 | 4 | 1 1907 | , , | | 1 13757 |
| May | * : | 3 | 1975 | * | 1 | 1983+ |
| May | . T. | 1 | 1983+ | | | 1 |
| | , , | | 1 | | | ! |
| | | | | | | ! |
| Seasonal# | 18 | 32 | 1983-84+ | 8 | 15 | 1951-52 |
| | | 27 | 1975-76 | } | 14 | 1973-74 |
| | | 26 | 1963-64+ | | 12 | 1968-69+ |
| | 1 | 25 | 1932-33 | , | 10 | 1971-72+ |

^{*} Average less than 1/2 day

⁺ Also occurred in earlier years

[#] Snowfall season extends from July 1 through June 30

AVERAGE NUMBER AND GREATEST NUMBER OF DAYS WITH THUNDERSTORMS AND HAIL May 1928 - December 1988

| | 1 | J | h | underst | ori | ns | 1 | | | Hail | | |
|-----------|-----|---------|---|---------|-----|--------|---|---------|---|---------|----|--------|
| Month | ! | Average | 1 | Greates | st | Number | , | Average | 1 | Greates | st | Number |
| | 1 | Days | ! | Days | 1 | Year | ; | Days | ! | Days | 1 | Year |
| January | 1 | * | ; | 2 | 1 | 1987+ | 1 | * | 1 | 2 | 1 | 1969+ |
| February | ! | 1 | 1 | 4 | 1 | 1936 | 1 | * | 1 | 2 | 1 | 1950 |
| March | 1 1 | 1 | 1 | 5 | 1 | 1958 | 1 | * | 1 | 2 | 1 | 1961 |
| April | 1 | 2 | 1 | 7 | 1 | 1930 | 1 | 1 | 1 | 3 | ! | 1973+ |
| May | 1 | 5 | 1 | 13 | 1 | 1980 | 1 | 1 | 1 | 3 | 1 | 1980+ |
| June | 1 | 5 | ; | 19 | 1 | 1967 | 1 | 1. | ţ | 4 | , | 1944 |
| July | 1 | 7 | 1 | 14 | 1 | 1985+ | 1 | * | 1 | 2 | 1 | 1969 |
| August | 1 | 8 | 1 | 16 | 1 | 1952+ | ! | * | 1 | 2 | 1 | 1976+ |
| September | 1 | 4 | 1 | 10 | 1 | 1937 | 1 | * | 1 | 2 | 1 | 1973 |
| October | , | 2 | 1 | 6 | 1 | 1983+ | 1 | * | 1 | 2 | 1 | 1945 |
| November | ! | * | 1 | 3 | 1 | 1971+ | 1 | * | 1 | 1 | 1 | 1983+ |
| December | ; | * | ! | 3 | ! | 1964 | 1 | * | 1 | 3 | 1 | 1964 |
| | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| Annual | 1 | 36 | 1 | 57 | 1 | 1983+ | 1 | 4 | ! | 13 | 1 | 1945 |

^{*} Monthly average is less than 1/2 day

⁺ Also occurred in earlier years

AVERAGE RELATIVE HUMIDITY* BY TIME PERIODS January 1951 - December 1988

| Month | 1 | 5 | a.m. | MST | ; | 11 | a.m. | MST | 1 | 5 | p.m. | MST | 1 | 11 | p.m. | MST |
|-----------|---|---|------|-----|---|----|------|-----|---|---|------|-----|---|----|------|-----|
| January | 1 | | 79 | | 1 | | 70 | | 1 | | 69 | | 1 | | 78 | |
| February | ; | | 77 | | 1 | | 63 | | 1 | | 59 | | 1 | | 75 | |
| March | 1 | | 71 | | 1 | | 52 | | 1 | | 47 | | 1 | | 68 | |
| April | 1 | | 67 | | ! | | 44 | | 1 | | 39 | | 1 | | 62 | |
| May | 1 | | 66 | | 1 | | 38 | | ! | | 33 | | 1 | | 58 | |
| June | ; | | 60 | | 1 | | 31 | | 1 | | 26 | | 1 | | 50 | |
| July | ! | | 53 | | 1 | | 27 | | 1 | | 22 | | 1 | | 43 | |
| August | 1 | | 55 | | 1 | | 30 | | 1 | | 23 | | 1 | | 46 | |
| September | 1 | | 61 | | 1 | | 34 | | 1 | | 28 | | 1 | | 54 | |
| October | ! | | 69 | | 1 | | 43 | | 1 | | 41 | | ! | | 66 | |
| November | 1 | | 74 | | ; | | 57 | | 1 | | 58 | | 1 | | 73 | |
| December | ; | | 79 | | 1 | | 70 | | 1 | | 71 | | 1 | | 78 | |
| | 1 | | | | 1 | | | | 1 | | | | 1 | | | |
| Annual | ; | | 68 | | 1 | | 47 | | 1 | | 43 | | 1 | | 63 | |

*Relative humidity is the ratio, expressed as a percentage, of the actual vapor pressure of the air to the saturated vapor pressure.

Vapor pressure is the pressure exerted by the molecules of a give vapor. In meteorology this pressure is used almost exclusively to denote the partial pressure of water vapor in the atmosphere.

In simple terms, Relative Humidity is a measure, in percent, of the amount of moisture in the air with 100 percent denoting a saturated air mass.

AVERAGE PERCENT OF POSSIBLE SUNSHINE, AVERAGE AMOUNT OF SKY COVER (TENTHS), AVERAGE NUMBER OF DAYS OF CLEAR, PARTLY CLOUDY, AND CLOUDY, AND AVERAGE NUMBER OF HEAVY FOG DAYS (VISIBILITY REDUCED TO 1/4 MILE OR LESS) BY MONTHS. ALSO, GREATEST NUMBER OF HEAVY FOG DAYS BY MONTHS AND YEAR OF OCCURRENCE.

Period of Record#

| | Sunshine | Sky Cover | (Sunr | se-Sunse | t.) | Heavy | Fog | |
|-----------|----------|-----------|---------|-----------|----------|-----------------|-----------------------|-----------|
| Month | Avg. Pct | Avg Amt ! | Average | Number (| of Days | Average | Greate | st Number |
| | of | of Sky | | Partly | | Number | ! <u> </u> | f Days |
| | Possible | Cover ! | Clear | Cloudy | ! Cloudy | of Days | Days ! | Year |
| January | 46 | 7.3 | 6 | 6 | 19 | 4 | 21 | 1931 |
| February | 55 | 7.1 | 5 | 7 | 16 | 2 | 13 | 1985 |
| March | 64 | 6.7 | 7 | - 8 | 16 | * | 5 | 1984 |
| April | 67 | 6.4 | 7 | 9 | 14 | * | 2 | 1958 |
| May | 72 | 5.7 | 9 | 11 | 11 | * | 2 | 1964 |
| June | 79 | 4.3 | 14 | 10 | 6 | 0 | | |
| July | 84 | 3.5 | 17 | 10 | 4 | 0 | | |
| August | 83 | 3.7 | 16 | 10 | 5 | 0 | | |
| September | 83 | 3.6 | 17 | 8 | 5 | 0 | ; ; ; ; ; | |
| October | 72 | 4.6 | 14 | ; ! 8_ | 1 9 | i ! * | 1 1 | 1971+ |
| November | 54 | 6.2 | 9 | 1 7 | 14 | i <u>1</u> 1 | ; 4 ; | 1968+ |
| December | 43 | 7.2 | 6 | i ! 7 | 18 | i ! 4 | 1 14 | 1980 |
| ANNUAL | 69 | 5.5 | 127 | 103 | 137 | i ! 11 | 37 | 1931 |

Period of Record:

Average percent of possible sunshine ...

January through June: 1936-1939; 1942-1988;...51 years. July through November: 1935-1938; 1942-1988;...51 years. December: 1935-1938; 1941-1988;................52 years.

Average amount of sky cover (sunrise to sunset): 1936-1988..53 years

Average number of days of clear, partly cloudy, and cloudy and average

number of days with heavy fog: 1929-1988......60 years. Greatest number of days with heavy fog: 1928-1988..61 years.

Sky cover is expressed in a range from 0 (for no clouds) to 10 (for sky completely covered by clouds). Clear ranges from 0/10 to 3/10 sky cover; partly cloudy from 4/10 to 7/10 sky cover; and cloudy from 8/10 to 10/10 sky cover.

* Less than 1/2 day

+ Also occurred in earlier years

Total sunshine available at Salt Lake City is 267,341 minutes.

TABLE 56a

AVERAGE, MAXIMUM, AND MINIMUM NUMBER OF DAYS BY MONTHS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY DAYS JANUARY - JUNE

May 1928 - June 1988

| Month | : Average | ! Maximum | ! Minimum | !! Average | Maximum | Minimum | : Average | : Maximum | Minimum |
|----------|-------------|---|-------------|--------------|---------------|---------------|-----------|--------------|---------------|
| | ! Number of | ! Number of | ! Number of | !! Number of | Number of | | Number of | ! Number of | Number of |
| | ! Clear | Clear | Clear | !! Partly | ! Partly | | Cloudy | Cloudy | Cloudy |
| | Days | ! Days | | Cloudy Days | ! Cloudy Days | Cloudy Days ! | | Days | Days |
| | 1 | Days Year | Days Year | ! ! ! ! | Days Year | Days Year | 1 | Days Year | ! Days ! Year |
| | 1 | 13 1961+ | 0 1950 | 11 | 1 17 1930 | 1 1981+1 | 3 | 29 1967 | 8 1930 |
| January | 1 6 | 1 12 1968 | 1 1967+ | 11 6 | 13 1939 | 2 1978+ | 19 | 28 1981 | 10 1961 |
| | 1 | 1 10 1 1948+ | 2 1981+ | 11 | 1 11 1 1975 | 3 1986+ | 1 | 26 1950 | 11 1935 |
| | 1 | 1 1 | !!!! | ! ! ! ! | 1 1 | | ! | 1 1 | ! ! |
| | 1 | 12 1964+ | 0 1979 | ! ! ! ! | 15 1930 | 3 1962 | I | 26 1979 | 7 1935 |
| February | 1 5 | 1 10 1 1955+ | 2 1983+ | !! 7 | 1 12 1935 | 4 1961+1 | 16 | 25 1962 | 9 1988 |
| | 1 | 9 1988+ | | | 11 1988 | 5 1986+ | 1 | 21 1983 | 10 1964 |
| | 1 | 1 1 | 1 1 | 11 | 1 1 | | ! ! | 1 1 | |
| | 1 | 12 1968+ | 1 1949 | | 15 1961+ | 2 1960 | | 24 1983+ | 7 1956 |
| March | 1 7 | 11 1965 | 2 1984+ | 9 | 13 1972+ | 3 1971+ | 15 | 23 1949 | 8 1939 |
| | 1 | 10 1985+ | 3 1983+ | 1 1 | 12 1950 | 4 1983+ | | 20 1983+ | 11 1972 |
| | ! | !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! | 1 1 | | 1 1 | | | 1 1 | |
| | 1 | 15 1934 | | 1 | 19 1942 | 2 1951 | | 20 1965+ | 6 1939 |
| April | 1 7 | 12 1977+ | | | 16 1938 | 4 1963 | 14 | 19 1 1983+ | 7 1931 |
| | ! | 11 1933+ | | | 15 1932 | 5 1983+ | | 18 1988+ | 9 1985- |
| | <u> </u> | !!! | | ! | | 1 1 | | 1 1 | |
| | 1 | 19 1929 | 1 1962 | 1 | 18 1941+ | 5 1974 1 | | 20 1977 | 2 1928 |
| May | 9 | 18 1936 | 3 1980+ | | 17 1960 | 6 19784 | 11 | 19 1980 | 4 1939- |
| | 1 | 17 1931 | 4 1981 | | 16 1932 | 7 1984+ | | 18 1981+ | 6 1969 |
| | 1 | 1 1 | | I | | 1 1 | | !!!!! | 1 |
| | | 22 1935 | 4 1969 | | 21 1930 | 3 1938 | | 17 1964 | 0 1935+ |
| June | 14 | 21 1929 | 7 1964+ | | 15 1982+ | 5 1986+ | | 12 1969+ | 2 19584 |
| | 1 | 20 1974+ | | | 14 1969 | 6 1968+ | | 1 11 1 1948+ | |
| | 1 | 1 1 | | i i | | 1 11 | | 1 1 1 | Į. |

Clear is defined as 0/10 to 3/10 sky cover, Partly Cloudy as 4/10 to 7/10 sky cover, and Cloudy as 8/10 to 10/10 sky cover. + Also occurred in earlier years

TABLE 56b

AVERAGE, MAXIMUM, AND MINIMUM NUMBER OF DAYS BY MONTHS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY DAYS

JULY - DECEMBER May 1928 - December 1988

| Month | Average | ! Maximum ! | | | : Maximum | | 3- | | Minimum |
|-----------|-----------|-------------|---------------|-------------|--------------|---------------|-----------|-------------|-------------|
| | Number of | Number of | Number of !! | Number of | ! Number of | | Number of | | Mumber of |
| | Clear | ! Clear | Clear !! | Partly | Partly | Partly ! | Cloudy | Cloudy | Cloudy |
| | Days | ! Days | | Cloudy Days | Cloudy Days | Cloudy Days ! | Days | Days | Days |
| | 1 | Days Year | Days Year | | Days Year | Days Year | | Days Year | Days ! Year |
| | ! | 25 1978 | 9 1987+ | | 19 1960 | 3 1955 | 1 | 10 1987 | 0 1956 |
| July | 17 | 24 1955+ | 10 1966+11 | 10 | 17 1966+ | 4 1978+ | 4 | 9 1985+ | |
| | 1 | 23 1942+ | 11 1937 1 | | 16 1984 | 5 1962 | Į. | 1 7 1986+ | |
| | 1 | 1 1 | !! | | 1 1 | | | | |
| | ! | 26 1944 | 3 1930 1 | | 19 1982 | 4 1933+ | | 13 1930 | 0 1985 |
| August. | 16 | 25 1933+ | 4 1929 1 | 11 | 18 1929 | 5 1978+ | | 11 1968 | 1 1974 |
| | ! | 23 1948 | 6 1982 1 | | 17 1945+ | | | 10 1957 | 2 1980 |
| | 1 | !!! | | | | | | | |
| | 1 | 27 1933 | 3 1940 1 | | 17 1940 | 2 1933 | | 15 1959 | 0 1962 |
| September | 17 | 26 1962+ | 7 1986 1 | | 15 1976 | 3 1979+ | | 14 1982 | 1 1974 |
| | ! | 25 1979+ | 8 1982 | | 14 1978 | 4 1975+ | | 13 1961 | 1 1 |
| | 1 | 24 1952 | 5 1957 | | 1 13 1963+ | | | 16 1972 | 1 1929 |
| October | 14 | 23 1933 | 7 1972 | | 12 1934 | 3 1973+ | | 15 1981+ | 2 1952 |
| UCTOBEI | 1 | 21 1954 | 8 1982+ | | 11 1957+ | | | 14 1971+ | 3 1965 |
| | i | | 1 1 1 | | 1 1 | 1 1 | 1 | ! ! | 1 |
| | 1 | 22 1936 | 0 1988 | | 1 13 1932 | 2 1944 | | 24 1970 | 3 1929 |
| November | 1 9 | 19 1939+ | | | 12 1967 | 3 1970 | | 23 1972 | 4 1936 |
| | 1 | | 3 1985+ | | 11 19694 | 4 1979+ | ! ! | 22 1983 | 5 1954 |
| | ! | 15 1960 | 0 1950 | | 1 13 1939 | 1 1 1985+ | 1 | 29 1983 | 9 1939 |
| December | 6 | 14 1959 | 1 1983+ | | 12 1940+ | | | 28 1950 | 10 1960 |
| Detremmen | ! | 13 1956+ | | | 11 1970 | 4 1982+ | | 27 1985 | 11 1953 |
| | ! | 1 1 | | | | | 1 | | 1 1 |
| | ! | 188 1933 | 88 1967 | l l | 163 1930 | 70 1979 | 1 | 182 1983 | 87 1933 |
| ANNUAL | 127 | 162 1929 | 89 1981 | | 134 1941 | 78 1964 | 135 | 172 1981 | 91 1939 |
| | 1 | 156 1952 | 94 1982 | | 117 1967 | 83 1978+ | 1 | 163 1978+ | 96 1929 |
| | 1 | | 1 1 1 | | | !!!!!! | I I | 1 1 | 1 1 |

Clear is defined as 0/10 to 3/10 sky cover, Partly Cloudy as 4/10 to 7/10 sky cover, and Cloudy as 8/10 to 10/10 sky cover.

⁺ Also occurred in earlier years

TABLE 57 AVERAGE SPEED, PREVAILING DIRECTION, FASTEST MILE, AND PEAK GUST BY MONTHS, DAY, AND YEAR OF OCCURENCE

| MONTH | | - Dec 1988 | | | Dec | | | | - Dec 1 | |
|-----------|---------|--------------|-----------|------|-------------|--------|-------|-----|-------------------|------|
| | | Prevailing ! | | | Mile | - | | | Gust (3 | |
| | Speed ! | Direction | | Dir | Day | ! Year | | Dir | Day i | rear |
| | MPH ! | (1) | MPH | | <u> </u> | 1 | MPH : | | <u>i i</u> | |
| January | 7.7 | SSE | 59(3) | NW | 10 | 1980 | 69(3) | NW | 1 10 | 1980 |
| February | 8.2 | SE | 56(3) | SE | 18 | 1954 | 54(3) | W | 8 | 1978 |
| March | 9.3 | SSE | 71(3) | NW | 10 | 1954 | 62(3) | S | 2 | 1974 |
| April | 9.5 | SE | 57 | NW | 11 | 1964 | 69 | W | 22 | 1961 |
| May | 9.4 | SE | 57 | NW | 21 | 1953 | 62(3) | NW | 5 | 1968 |
| June | 9.4 | SSE | 63 | W | i ! 3 | 1963 | 94 | NW | 1 3 | 1963 |
| July | 9.5 | SSE | 51 | NW | 25 | 1986 | 74 | NW | 18 | 1981 |
| August | 9.6 | SSE | 58 | SW | i ! 6 | 1946 | 74 | NW | 1 13 | 1978 |
| September | 9.1 | SE | 61(3) | W | 1 3 | 1952 | 71(3) | NW | 5 | 1972 |
| October | 8.5 | SE | 67(3) | NW | 27 | 1950 | 71(3) | NW | 5 | 1967 |
| November | 7.8 | SSE | 63(3) | NW | 1 11 | 1937 | 59(3) | NW | 1 4 | 1968 |
| December | 7.5 | SSE | 1 1 54 | S_ | 25 | 1955 | 60 | N | 1 15 | 1981 |
| ANNUAL | 8.8 | SSE | 71(3) | I NW | 10 1 Mar | 1954 | 94 | NW | ; ; 3 ; Jun | 1963 |

* Period of record.

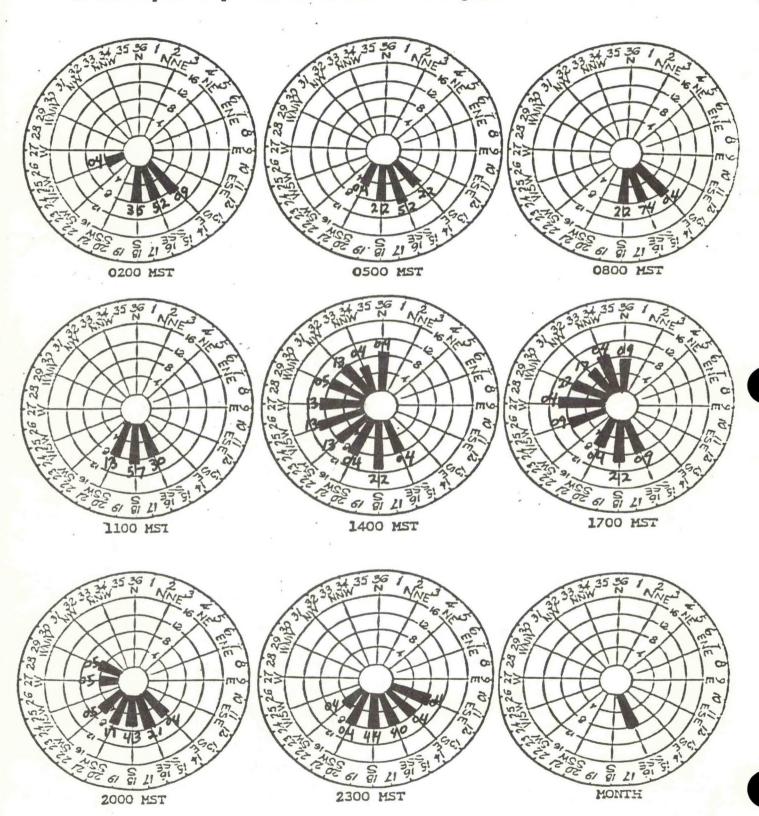
(1) The prevailing direction is the most frequent observed direction from which the wind blows during a specific time period. In the above table, the prevailing direction is for the majority of months during the period of record.

(2) Fastest mile is the fastest one minute observed wind speed taken from a multiple

register with a time record of the passing of each mile of wind.

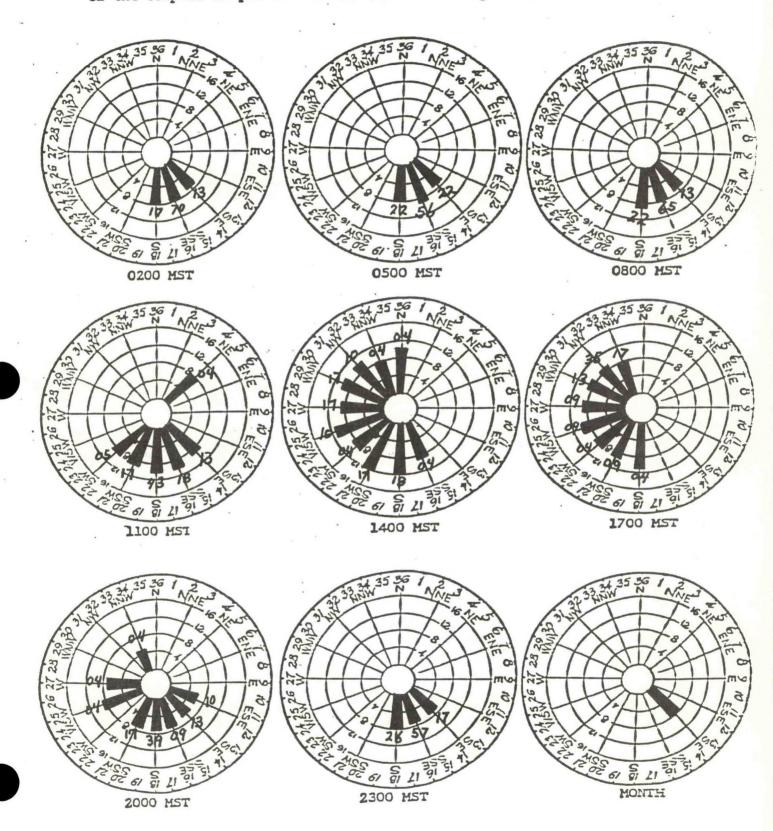
(3) Wind gusts are reported when rapid fluctuations in wind speed result in a variation of 10 kts (11 mph) or more between peaks and lulls. The duration of each gust is usually less than 20 seconds. An official record of the measurement of peak wind gusts requires the use of an instantaneous wind-speed recorder. This type of instrument was not available for use at the Salt Lake Airport until August 15, 1954. important to remember this when using the peak gust speed records. For example, the record fastest mile in March was 71 mph recorded on March 10, 1954 (period of record July 1935 - March 1987). However, the peak gust speed of record for March (period of record August 1954 - Mar 1987) was only 62 mph recorded on March 2, 1974. This 62 mph value would not, of course, equal the peak wind gust that obviously occurred on March 10, 1954, but was not made a matter of record because an instantaneous wind-speed recorder was not available at the time. A formula to derive an unofficial estimate of peak gust from the fastest mile, per American Standard Association (ASA) is to multiply the fastest mile of wind by a factor of 1.3. However, the derived value would still be strictly an approximate speed and of no official use.

SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY
1961 - 1988 MONTH: January

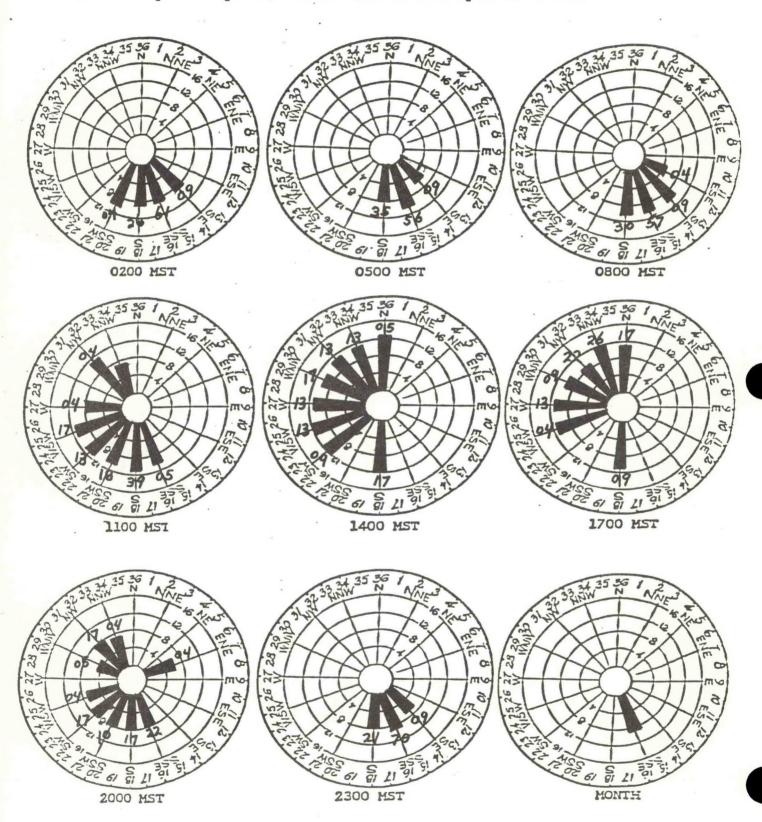


SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY

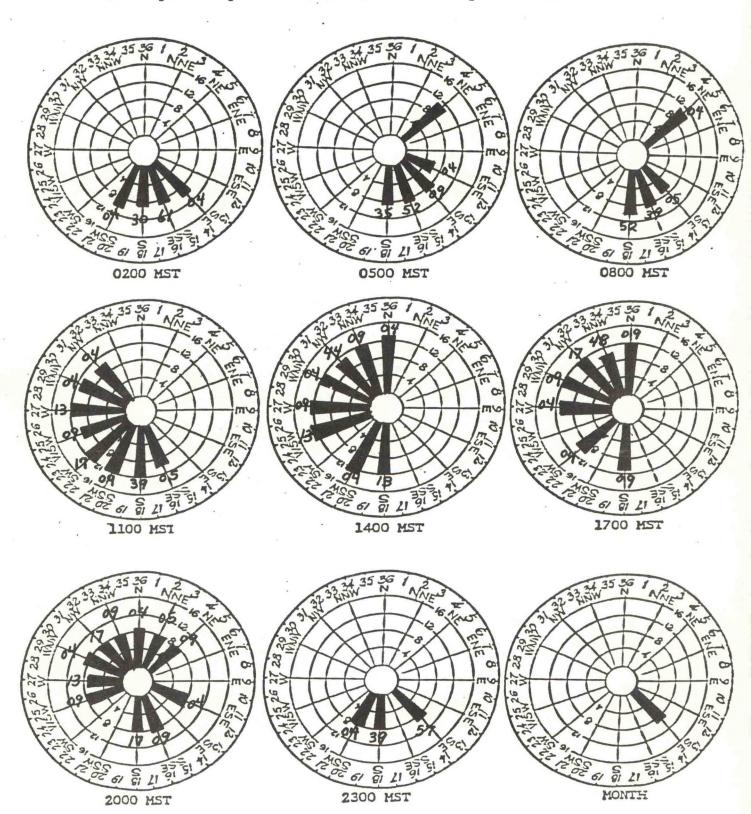
1961 - 1988 MONTH: February



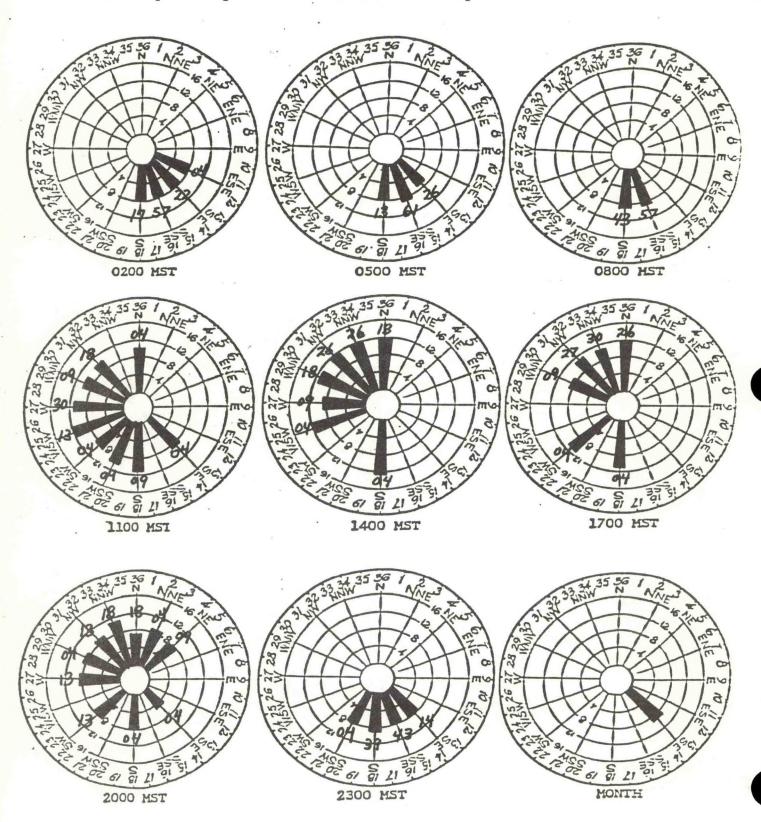
SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY
1961 - 1988 MONTH: March



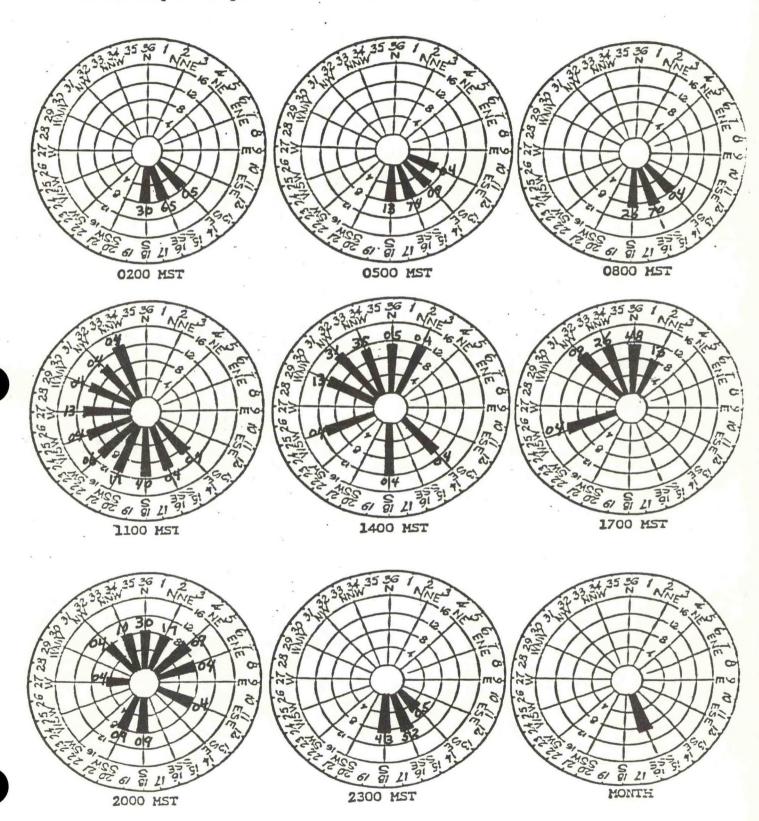
SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY
1961 - 1988 MONTH: April



SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY
1961 - 1988 MONTH: May



SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY
1961 - 1988 MONTH: June



SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY

1961 - 1988 MONTH: July

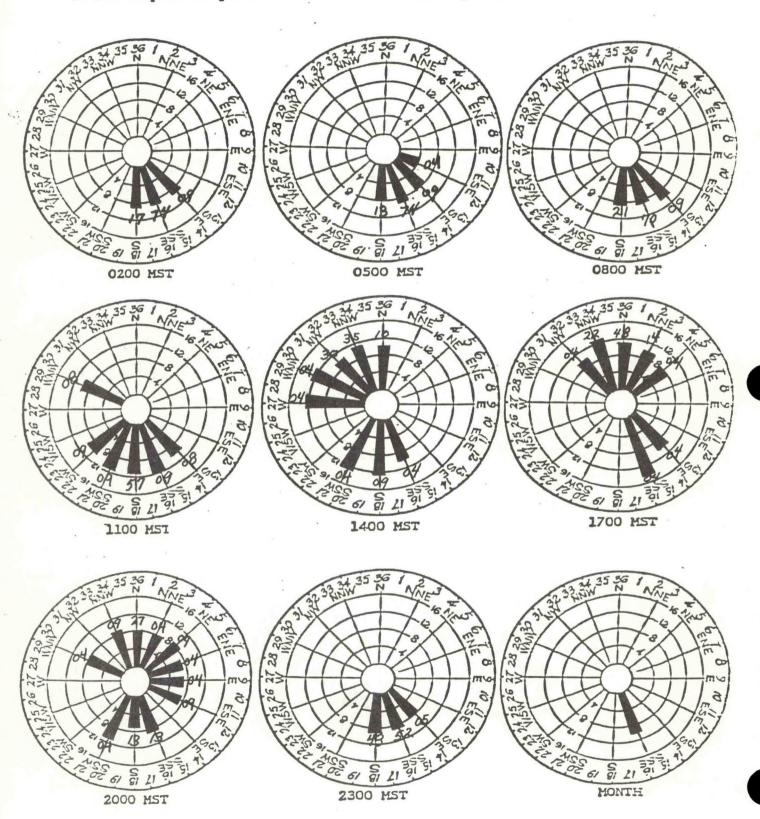
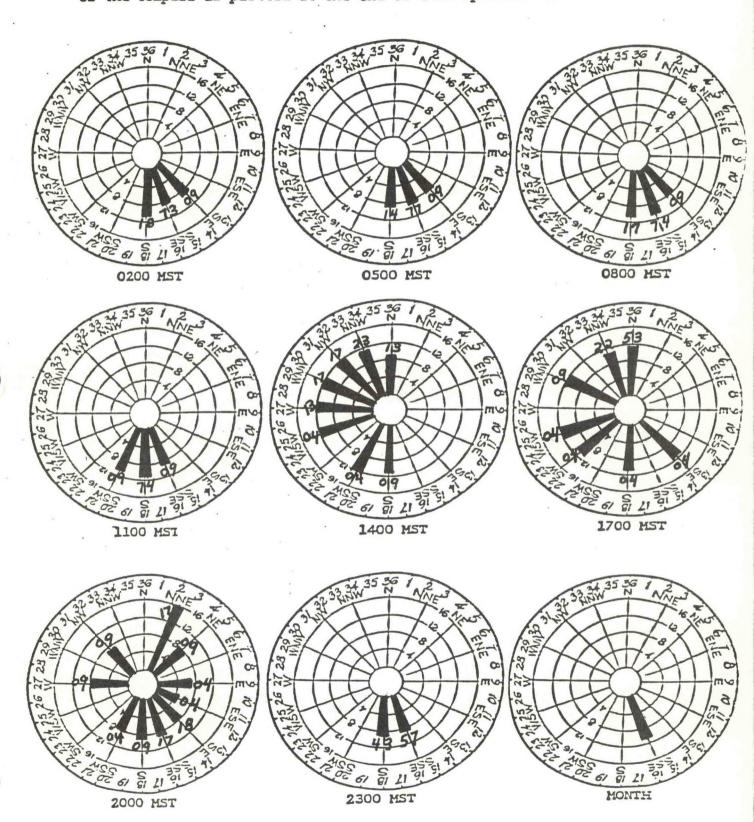


Figure 15

WIND:

SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY 1961 - 1988 MONTH: August



SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY
1961 - 1988 MONTH: September

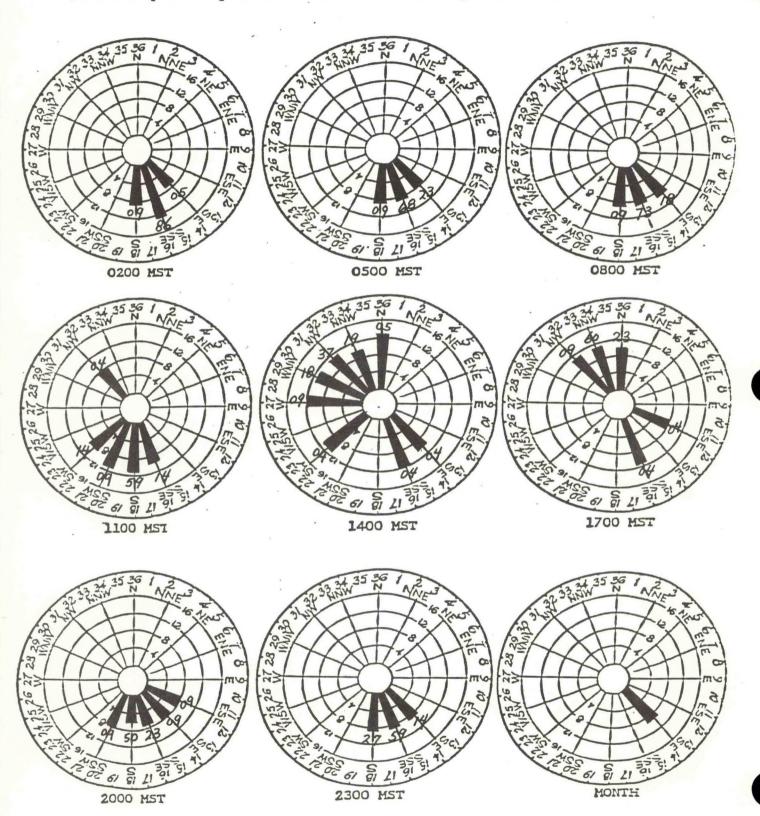
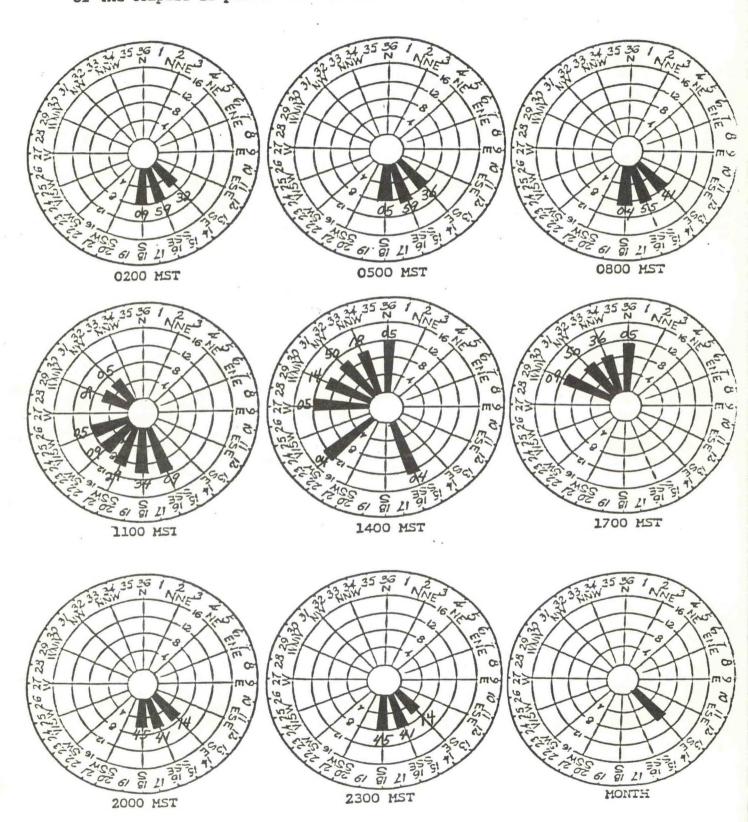


Figure 17

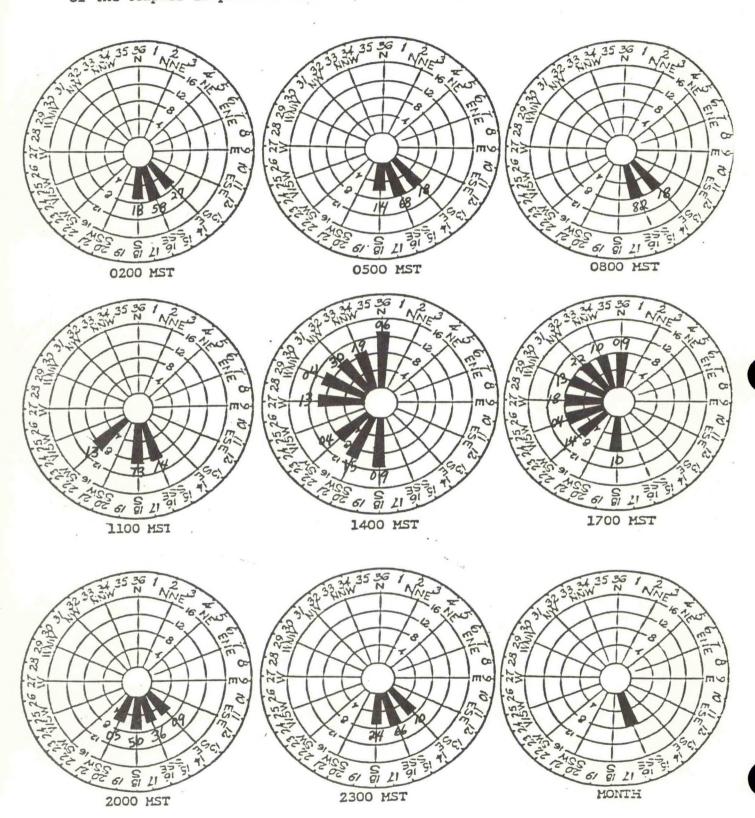
WIND:

SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY 1961 - 1988 MONTH: October

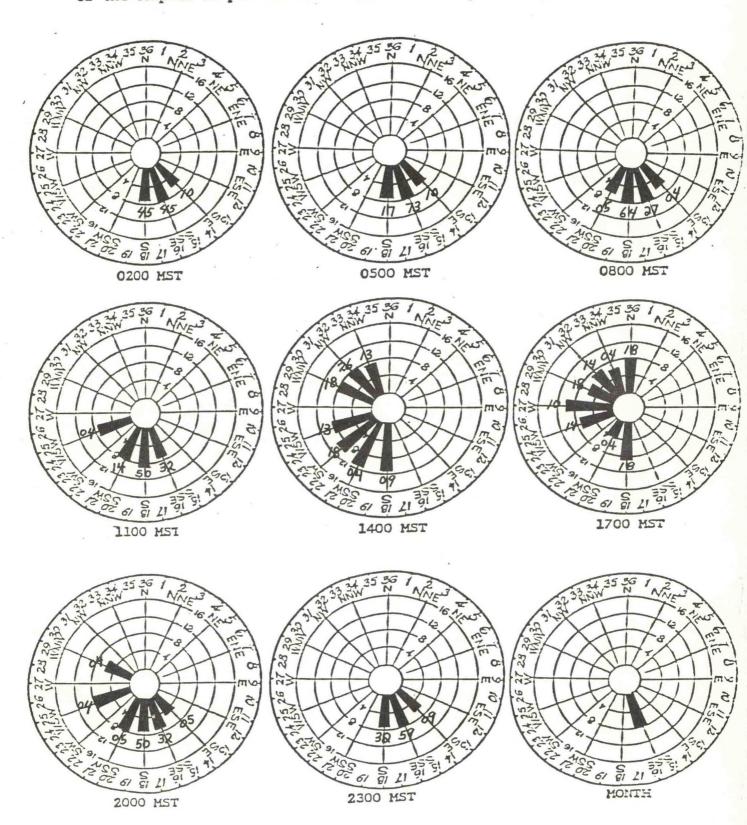


SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY

1961 - 1988 MONTH: November



SURFACE WIND ROSES, EVERY THREE HOURS AND MONTHLY
1961 - 1988 MONTH: December



| | and Lowest onth and D | | | | | (E7) 1 | | e by Month | and D | ay and | Year of O | curre | |
|-----------|--------------------------|--------------------|--------|---------|--------------|--------|---------|------------|------------|--------|--------------|-----------|-------|
| -, | | | Dec 19 | | | 1 | | port Eleva | | | | | |
| Month | Highest | Day | Year | Lowest. | ! Day | Year ! | Average | Highest | Day | Year | Lowest | Day | Year |
| January | 31.01 | 1 | 1979 | 29.04 | 12 | 1932 | 25.80 | 26.39 | 28 | 1962 | 24.85 | 12 | 1932 |
| February | 30.83 | 12 | 1943 | 29.08 | 6 | 1937 | 25.77 | 26.38 | 12 | 1943 | i 24.92 | 6 | 1937 |
| March | 30.78 | 11 | 1951 | 29.11 | 10 | 1954 | 25.69 | 26.30 | 1 11 | 1951 | 24.99 | 10 | 1954+ |
| April | 30.58 | 6 | 1939 | 29.14 | 22 | 1960+ | 25.67 | 26.19 | 6 | 1939 | 25.03 | 11 | 1935 |
| May | 30.50 | 15 | 1970 | 29.11 | 29 | 1988 | 25.66 | 26.14 | 15 | 1970 | 25.16 | 23 | 1953 |
| June | 30.39 | 15 | 1981 | 29.17 | 22 | 1944 | 25.68 | 26.04 | 22 | 1964 | 25.11 | 8 | 1944 |
| July | 30.34 | 10 | 1983 | 29.30 | 4 | 1986 | 25.73 | 26.07 | 8 | 1959 | 25.30 | 8 | 1954 |
| August | 30.33 | 31 | 1987 | 29.39 | 31 | 1944 | 25.74 | 26.01 | 20 | 1961 | 25.32 | 29 | 1932 |
| September | 30.52 | 25 | 1970 | 29.33 | 4 | 1970 | | 26.16 | 25 | 1970 | 25.25 | 2 | 1936 |
| October | 30.67 | 31 | 1981 | 29.23 | 29 | 1935 | 1 | 26.26 | 19 | 1964 | 25.12 | 29 | 1935 |
| November | 30.89 | 23 | 1938 | 29.02 | 30 | 1982 | 25.82 | 26.38 | 23 | 1938 | 25.10 | 15 | 1952 |
| December | 31.09 | 18,9 | 1956 | 29.01 | 1 1 | 1982 | 25.82 | 26.43 | 8,9 | 1956 | 24.98 | 30 | 1951 |
| ANNUAL | 31.09 | 8,9 Dec | 1956 | 29.01 | l 1 l Dec | 1982 | 25.74 | 26.43 | 8,9 Dec | 1956 | 24.85 | 12 Jan | 1932 |

- + Also occurred in earlier years.
- (1) Highest and lowest station pressure tabulations discontinued January 1971. The average station pressure values in this table have been continued through the present.

TABLE 58a

AVERAGE MONTHLY STATION PRESSURE REDUCED TO SEA LEVEL

| January | 30.12 in. | May | 29.96 in. | September | 30.05 in. |
|---------|-----------|--------|-----------|-----------|-----------|
| | 30.09 in. | June | 29.98 in. | October | 30.10 in. |
| March | 30.00 in. | July | 30.04 in. | November | 30.14 in. |
| April | 29.97 in. | August | 30.05 in. | December | 30.14 in. |

Annual 30.05 in.

TABLE 59

NORMAL¹ AND HIGHEST AND LOWEST HEATING DEGREE DAYS BY MONTHS
AND YEAR OF OCCURRENCE (BASE 65 DEGREES)
May 1928 - December 1988

| 1 | Month | ! | Normal | 1 1 | Highest | 1 | Year | 1 1 | Lowest | 1 | Year |
|---|-----------|---|--------|-----|---------|---|------|-----|--------|---|-------|
| 1 | July | ; | 0 | !! | 23 | 1 | 1938 | 1 1 | 0 | 1 | 1988+ |
| - | August | 1 | 0 | !! | 49 | 1 | 1968 | 1 1 | 0 | 1 | 1988+ |
| : | September | 1 | 97 | ;; | 239 | 1 | 1965 | 1 1 | 16 | 1 | 1960 |
| - | October | ; | 377 | !! | 573 | 1 | 1946 | 1 1 | 158 | 1 | 1988 |
| - | November | 1 | 759 | ! ! | 995 | 1 | 1930 | 1 1 | 560 | 1 | 1953 |
| 1 | December | ! | 1076 | !! | 1459 | 1 | 1932 | 1 1 | 835 | 1 | 1977 |
| ! | January | ; | 1128 | ; ; | 1658 | 1 | 1949 | 1 1 | 784 | 1 | 1953 |
| 1 | February | ! | 865 | 1 1 | 1363 | 1 | 1933 | 1 1 | 637 | 1 | 1934 |
| : | March | 1 | 753 | :: | 1016 | 1 | 1964 | !! | 484 | 1 | 1934 |
| ! | April | ; | 474 | 1 1 | 619 | ! | 1970 | 1 1 | 268 | 1 | 1934 |
| - | May | 1 | 220 | 1 1 | 415 | 1 | 1933 | 1 1 | 56 | 1 | 1934 |
| 1 | June | ! | 53 | 1 1 | 185 | 1 | 1945 | 1 1 | 0 | 1 | 1977 |
| 1 | ANNUAL | ! | 5802 | :: | 6875 | 1 | 1932 | 1 1 | 4590 | 1 | 1934 |
| - | | | | | | | | | | | |

TABLE 60

NORMAL AND HIGHEST AND LOWEST COOLING DEGREE DAYS BY MONTHS
AND YEAR OF OCCURRENCE (BASE 65 DEGREES)
May 1928 - December 1988

| ! | Month | ; | Normal | 1 1 | Highest | 1 1 | Year | 1 1 | Lowest | 1 | Year |
|---|-----------|---|--------|-----|---------|-----|------|-----|--------|---|-------|
| ! | January | 1 | 0 | 1 1 | _ | 1 | _ | 1 1 | _ | 1 | _ |
| 1 | February | 1 | 0 | 1 1 | _ | 1 | _ | 1 1 | _ | ! | _ |
| 1 | March | 1 | 0 | 1 ! | _ | 1 | _ | !! | - | 1 | _ |
| ! | April | ; | 0 | !! | 25 | 1 | 1987 | !! | 0 | 1 | 1988+ |
| ! | May | 1 | 28 | 1 1 | 181 | 1 | 1934 | 1 1 | 0 | 1 | 1953 |
| ! | June | 1 | 152 | 1 1 | 334 | 1 | 1988 | 11 | 40 | 1 | 1945 |
| 1 | July | 1 | 388 | 1 1 | 510 | 1 | 1960 | 1 1 | 296 | 1 | 1986 |
| 1 | August | ! | 311 | 1 1 | 489 | 1 | 1940 | 1 1 | 185 | ! | 1928 |
| 1 | September | ! | 97 | ! ! | 208 | 1 | 1979 | 1 1 | 21 | 1 | 1965 |
| 1 | October | 1 | 5 | 1 1 | 29 | 1 | 1963 | 1 1 | 0 | 1 | 1985+ |
| 1 | November | 1 | 0 | 1 1 | - | 1 | - | !! | - | 1 | _ |
| 1 | December | 1 | 0 | 1 1 | - | 1 | - | 1 1 | _ | 1 | - |
| 1 | ANNUAL | ! | 981 | 1 1 | 1468 | 1 | 1940 | 1 1 | 616 | 1 | 1965 |

- (1) Normals based on the record for the 1951-1980 period.
- + Also occurred in earlier years.

NOTE: Heating and cooling degree days are used as an indication of fuel and energy consumption. One heating or cooling degree day is given for each degree that the daily mean temperature departs below or above 65 degrees respectively.

WARMEST AND COLDEST SUMMER SEASONS (JUNE, JULY, AUGUST) WITH THEIR AVERAGE MEAN TEMPERATURE AND AMOUNT OF PRECIPITATION RECEIVED DURING THE PERIOD 1928 - 1988

| | | | | | 1 | AVERA | GE S | SUMMER | 1 | | | | | |
|------|---|--------|---|------|---|--------|------|---------|---|------|---|--------|---|------|
| | W | ARMEST | 7 | | 1 | SEASON | ME | ANS FOR | ; | | (| COLDES | T | |
| Year | ; | Mean | ; | Pcpn | 1 | PERIOD | OF | RECORD | ; | Year | 1 | Mean | , | Pcpn |
| | 1 | Temp | 1 | - | 1 | Temp | 1 | Pcpn | 1 | | 1 | Temp | 1 | |
| 1988 | ! | 77.7 | ! | 0.29 | 1 | | 1 | | 1 | 1928 | 1 | 69.5 | 1 | 1.31 |
| 1961 | 1 | 77.5 | ! | 1.83 | 1 | | 1 | | ; | 1945 | 1 | 69.9 | 1 | 7.93 |
| 1985 | 1 | 76.6 | ! | 2.18 | ! | | ; | | 1 | 1965 | 1 | 70.7 | 1 | 5.45 |
| 1940 | 1 | 76.1 | ! | 0.59 | ; | 73.2 | 1 | 2.57 | 1 | 1964 | ! | 70.9 | 1 | 3.04 |
| 1974 | 1 | 75.6 | ; | 0.78 | 1 | | } | | ; | 1944 | 1 | 70.9 | 1 | 2.82 |
| 1960 | ! | 75.5 | ! | 0.74 | ! | | 1 | | 1 | 1932 | 1 | 70.9 | 1 | 4.58 |
| 1981 | ! | 75.3 | ! | 1.59 | ! | | ; | | ! | 1951 | 1 | 71.0 | ; | 4.05 |

⁺ Also occurred in earlier years

TABLE 62

WARMEST AND COLDEST WINTER SEASONS (DECEMBER, JANUARY, FEBRUARY) WITH THEIR AVERAGE MEAN TEMPERATURE AND TOTAL SNOWFALL AND DAYS WITH SNOW DURING THE PERIOD 1928-1929 TO 1987-1988

| | | WA | RM | EST | | | - | | 11 | | A | VERAGE | 1 | WINTER | | | 11 | | CC | LD | EST | | | |
|---------|-----|------|----|-------|---|------|---|-------|----|------|-----|--------|---|---------|---|-----|----|---------|------|----|-------|------|-----|-------|
| | | | | | | | | | 11 | 9 | SE, | ASON M | E | ANS FOR | | | 11 | | | | | | | |
| | | | | | | | | | 11 | F | E | RIOD O | F | RECORD |) | | 11 | | _ | | | | | |
| Year | 11 | Mean | 1 | Total | I | Nmbr | ! | Total | 11 | Temp | 1 | Snow | 1 | Nmbr : | P | pn | 11 | Year ! | Mean | 1 | Total | Nobr | ! T | otal |
| | 1 . | Temp | 1 | Snow | 1 | Days | 1 | Popn | 11 | | 1 | (In) | ! | Days ! | | | 11 | 1 | Temp | 1 | Snow | Days | 1 | Popri |
| | 1 | | 1 | (In) | 1 | With | 1 | | 11 | | 1 | | 1 | With ! | | | 11 | 1 | | 1 | (In) | With | 1 | |
| | 1 | | 1 | | - | Snow | | | 11 | | 1 | | 1 | Snow ! | | | 11 | 1 | | 1 | | Snow | 1 | |
| 1977-78 | 1 1 | 38.0 | 1 | 39.3 | 1 | 28 | 1 | 5.21 | 11 | | 1 | | 1 | 1 | | | 11 | 1932-33 | 19.5 | 1 | 66.2 | 36 | 1 | 3.77 |
| 1933-34 | ! | 37.9 | 1 | 13.6 | 1 | 9 | 1 | 3.77 | !! | | 1 | | 1 | ! | | | 11 | 1948-49 | 19.9 | 1 | 74.7 | 36 | 1 | 5.58 |
| 1937-38 | 1 | 36.3 | 1 | 15.9 | 1 | 15 | ! | 2.71 | 11 | | 1 | | 1 | 1 | | | 11 | 1930-31 | 23.5 | 1 | 15.0 | 15 | ! | 1.51 |
| 1952-53 | ! | 36.2 | 1 | 25.2 | 1 | 8 | 1 | 4.28 | 11 | 30.4 | 1 | 38.0 | ! | 21 | 3 | .82 | 11 | 1928-29 | 23.9 | 1 | 24.2 | 25 | 1 | 2.13 |
| 1969-70 | | 35.8 | ! | 22.7 | 1 | 20 | ! | 3.87 | 11 | | ! | | - | 1 | | | 11 | 1931-32 | 23.9 | 1 | 41.9 | 31 | 1 | 3.09 |
| 1958-59 | - | 35.4 | ! | 29.9 | 1 | 15 | 1 | 3.55 | • | | 1 | | 1 | | | | 11 | 1963-64 | 24.0 | 1 | 39.1 | 30 | 1 | 2.06 |
| 1957-58 | - | 35.3 | ! | 28.2 | ! | 23 | 1 | 4.68 | | | 1 | | ! | ! | | | 11 | 1972-73 | 24.5 | 1 | 59.7 | 22 | 1 | 5.62 |

TABLE 63 HOLIDAY WEATHER INFORMATION 1929 - 1988

| | | Avg Min Temp | ! Max | 1 | Low Max Temp | 1 | High Min Temp | Į Į | | 1 | l inch or | Pct of Days With 0.1 in. or more snow | 24 hr | Date |
|---|-----------|------------------------|-------------|-------------------|--------------------|--------------------|---------------------|--------------------|------------------|--------------------|------------------|---|------------------|---------------|
| NEW YEARS DAY January 1 | 36 | 1 19 | 58.1 | 1943 | 14.2 | 1979 | 42.0 | 1934 | ; -4.0 | 1931 | 26 | 21 | 4.6 | 1937 |
| PRESIDENTS DAY Feb 19-Feb 25 | 46 | i ! ! 26 | 64.8 | 1958 | 29.1 | 1955 | 42.9 | 1982 | 5.9 | 1975 | 31# | 18* | 2.7 | 1942 |
| EASTER SEASON Mar 15-Apr 15 | ! ! 56 | ! ! 33 | 83.7 | 4/7 1930 | | 3/27 1975 | | 4/8 1930 | | 3/19 1965 | | 14* ; | 11.8 | 4/10 1974 |
| MEMORIAL DAY Last Monday in May | 76 | 47 | 92.7 | 5/31 1956+ | | 5/30 1937 | | 5/27 1974 | | 5/28 1954 | | ! ! ! | 1 2 | |
| INDEPENDENCE DAY July 4 | 91 | 1 60 | ! !101.8 | 1936 | 73.2 | 1938 | 67.2 | 1936 | ¦ ¦ 46.7 ¦ | 1938 | 9 | 1 1 1 1 | 1 | |
| PIONEER DAY July 24 | 94 | 1 63 | 105.4 | 1931 | 76.6 | 1977 | 77.2 | 1953 | 50.2 | ! ! 1954 ! | ! 14 ! ! 14 ! | 1 1 3 | 2 2 2 2 | |
| LABOR DAY First Monday in September | 85 | 54 | 1 98.0 | 9/4 1950 | | 9/1 1973 | | 9/4 1978 | | 9/3 1961 | | 1 | ! ! ! | |
| UTAH STATE FAIR Sep 1 -Sep 15 | 1 77 | 1 47 | 1100.0 | 9/8 1979 | | 9/5 1970 | | 9/5 1978 | | 9/13 1928 | | | 1 | |
| HALLOWEEN October 31 | 1 1 59 | 1 34 | ; 71.8 | ! ! 1952 ! | 35.1 | 1971 | 48.0 | 1954 | 17.5 | 1935 | ! 28 ! ! | 5 | 8.5 | 1971 |
| THANKSGIVING DAY Nov 22-Nov 28 | 45 | 26 | 1 68.6 | 11/25 | | 11/24 | | 111/24 | | 11/24 | | 14* | 7.0 | 11/26 1973 |
| CHRISTMAS DAY December 25 | 37 | 20 | 59.2 | 1955 | 19.8 | 1948 | 46.0 | 1955 | -6.7 | 1930 | 33 | 30 ; | 5.9 | 1943 |

[#] These percentages relate to the probability of precipitation on any one day of the given period.

^{*} These percentages relate to snowfall on any one day of the given period.

⁺ Also occurred on 27 May 1951.

144

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162

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164

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168

169

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178

180

182

184

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189

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199

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204

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